EMIST and DRUGGIST NOVEMBER 13 1943

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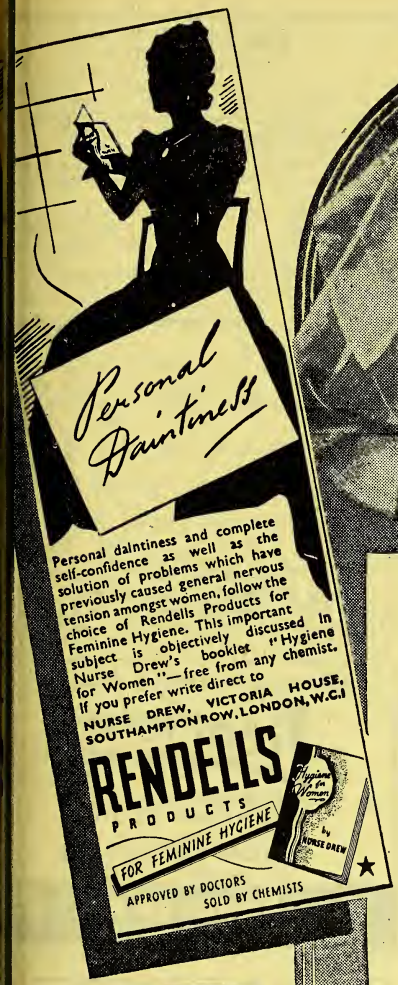

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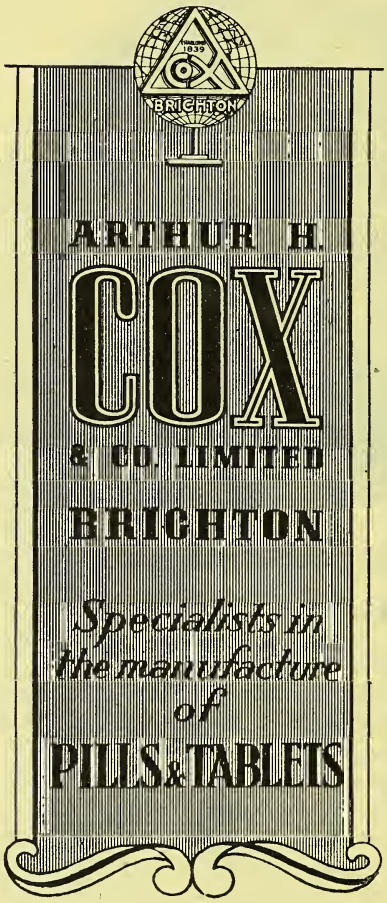

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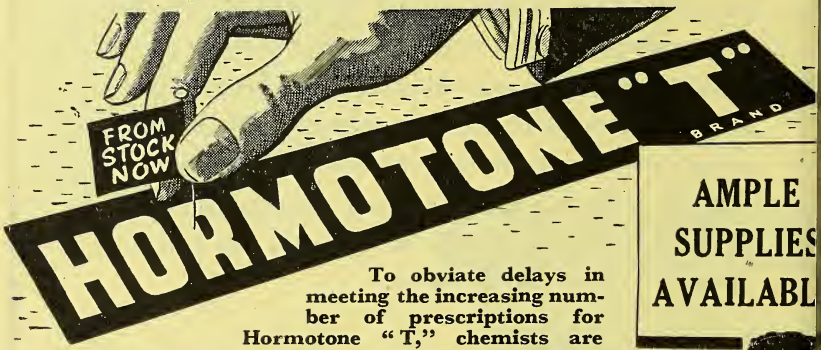

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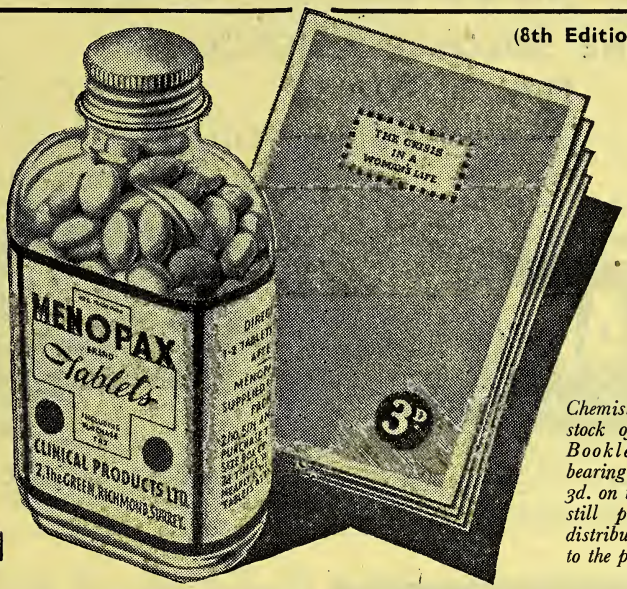

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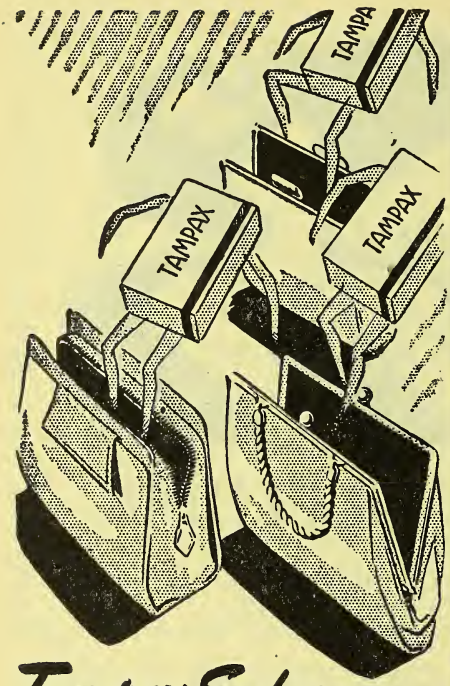

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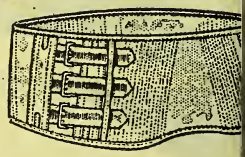

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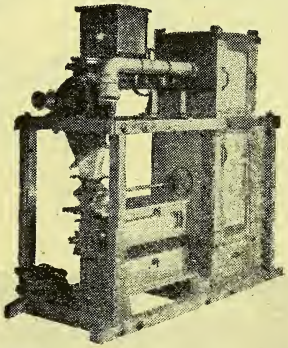

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BOTTLES
ON ACTIVE SERVICE

Even on board ship urgent operations must sometimes be carried out, and it is good to know that everything can be done just as successfully as in the most modern hospital. Beatson Clark Bottles travel on shipboard to all parts of the world—always to hand with their stock of drugs to aid doctors and surgeons in their mission of mercy. At the successful conclusion of these tasks, Beatson Clark Bottles will again be in full supply at the service of our customers.

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MANUFACTURERS OF CHEMICAL AND MEDICAL GLASS
ROTHERHAM ESTABLISHED 1751 YORKS

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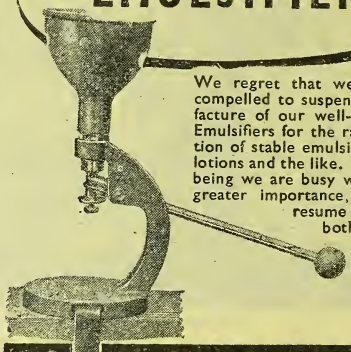

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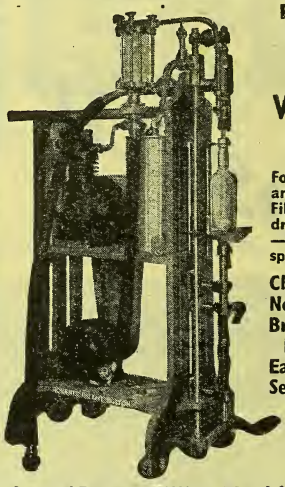

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OUTPUT 90 PER MIN.

TABLETS UP TO ¾ DIAM.

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FOR TABLETS UP TO ½" DIAM.

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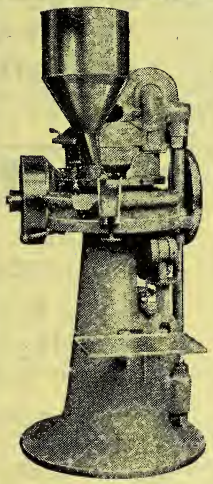

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For round or shaped tablets up to 1 in. in diameter and ⅜ in. in thickness.

Output: 300 to 350 tablets per minute.

Floor Space: 40 in. × 30½ in.

Power required: 1½–2 h.p.

Available with self-contained motor drive, vari-speed drive, or for pulley drive. All adjustments can be made while the machine is running.

Punches and dies easily changed.

The machine is fully guarded.

Full Particulars on request.

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WAR-TIME MARKET NEWS

summarising war-time opportunities, special notices, new packaging and new products

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FRYER & CO. (NELSON) LTD.
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"Sentinel"
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Available in all popular sizes:
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(Inclusive of Tax)

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TONICITY LABORATORIES LTD.
16 CEDARS ROAD, LONDON, S.W.4

Spic
for underarm hygiene

EFFECTIVELY RESTRICTS PERSPIRATION
You can sell "Spic" with confidence—it being made to specified B. of T. Formula
(From all Wholesalers)
12/- and 20/- per doz. (Plus Tax)
1/10 and 3/1 Inc. Tax)

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Kindly note NEW PRICES for

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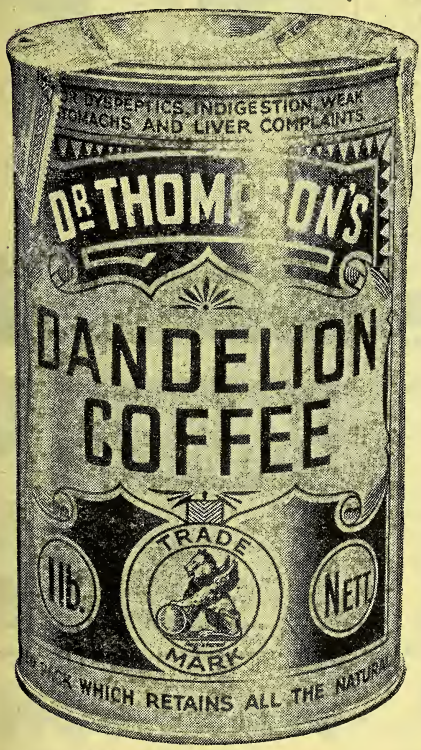

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1/4	11/6 doz.
2/4½	22/6 ,,
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Dandelion Coffee Essence

Retail	Wholesale
11½	9/- doz.
1/5½	13/6 ,,

No Purchase Tax.

Packed in hermetically sealed tins, thus retaining all the natural aroma of Dandelion Coffee.

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'Eclipsol' Hair Cleanser

DESTROYS PARASITES, etc

A Good Seller at

1/1½ 4 oz. and 2/3 8 oz.

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Carriage Paid on 4 doz.

8 oz. or equivalent for cash with order

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Living Profit Guaranteed 46 Years on the P.A.T.A.
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KEARSLEY'S (150 Years' Reputation)
WIDOW WELCH's Original
FEMALE PILLS

9d. BOX PROFIT by ordering 1 dozen 2/10 size. Bonus box given on every dozen (13). It pays to push this size. Order from your Wholesale House. N.B.—These Pills do not contain any deleterious or prohibitive drugs, and can be sold with safety.

C. & G. KEARSLEY, LTD.
71 DARTMOUTH RD., FOREST HILL, LONDON, S.E.23
Established 1787 In the Reign of King George III

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FOR BETTER SHAVES AND BETTER PROFITS

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FOR QUICK SALES

George Jackson & Sons Ltd., Harpurhey, M/cr.9

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YEAST FOR ANAEMIA

MIDGLEY & PARKINSON, LT
WARREN WORKS, PUDSEY, LEEDS

FRANCO-BRITISH ELECTRICAL CO. LTD.

For Ampoules & Vials.

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The new 'Kepler' advertising has begun

'Kepler' advertisements are now appearing in the most widely read women's papers and are due to appear in the Radio Times, Punch, Picture Post and some of the National Sunday papers.

Display 'Kepler' on your counter to serve as a reminder to customers with interest already stimulated by this publicity.

Make sure that your stock is sufficient to meet the increased demand and remember that conditions make it necessary to order well in advance.

'Kepler'

TRADE MARK

COD LIVER OIL WITH MALT EXTRACT

Bottles of two sizes, medium 3/6, large 6/3
Retail Prices

BURROUGHS WELLCOME & CO.
(The Wellcome Foundation Ltd.)
LONDON

KERFOOT

KERFOOTS
MEDICATED
PASTILLES

Limited quantities are available for existing customers whose orders will be dealt with in rotation.

MENTHOL & EUCALYPTUS • ANTISEPTIC THROAT CATARRH

Thomas Kerfoot & Co. Ltd., Vale of Bardsley, Lancashire

P2

VITAMIN DEFICIENCY

An Advanced Formula

EVERY pharmacist will immediately recognise that this formula represents the latest step forward in vitamin therapy. **VYKMIN** contains the *six* essential vitamins —each in the *right* quantity, a powerful corrective in cases of systematic vitamin deficiency.

The Vykmin formula (2 capsules per day):

Vitamin A	4,500 I. Units
Vitamin B1	300 I. Units
Vitamin B2 (G)	100 Microgrms.
Vitamin C	500 I. Units
Vitamin D	1,000 I. Units
Nicotinic Acid (Niacin)	10 Milligrms.

Vykmin

MULTIPLE-VITAMIN CAPSULES

FERRAEMIA

brand tablets

for ANAEMIA

FORMULA

FERROUS SULPHATE EXSICC.	$2\frac{3}{4}$	grains
DRIED YEAST	2	,,
COPPER SULPHATE	$\frac{1}{100}$	,,
MANGANESE HYPOPHOS. ..	$3\frac{1}{2}$	,,
EXCIPIENT	$\frac{3}{8}$	,,
CHOCOLATE COATING q.s. to	$8\frac{1}{2}$	,,

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ANAEMIA OF PREGNANCY
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AS A TONIC DURING CONVALESCENCE and Debilitated Conditions
IN GENERAL, for the Treatment of all forms of IRON DEFICIENCY

AVAILABLE IN BOTTLES OF 60 TABLETS

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74-77 White Lion Street, London, N.1, and at 19 Temple Bar, Dublin

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For RETAILER — WHOLESALER — MANUFACTURER

Published Weekly at

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NEWS OF THE WEEK

andbook of British Standards.—The sh Standards Institution, 28 Victoria et, London, S.W.1, has recently issued Handbook of British Standards," price d. post free. It gives complete lists of dard Specifications in all divisions of Institute, including chemicals.

etal Hot Water Bottles.—The Board of le includes metal hot water bottles in edule of articles covered by the General dware and Ironmongery (Maximum es) Order recently issued. Manufacture ch bottles is prohibited, but the Order be taken as covering bottles that may be in retailers' hands.

ew Coal Tar Products Order.—The istry of Fuel and Power has issued a olidating Order: the Coal Tar Products es Order, 1943 (S. R. & O., 1943, No. 8), which embodies and re-enacts the visions of former Orders, with the exception of certain modifications of clauses er Articles 6 and 7 in relation to price stments. The Order comes into force November 15.

Commodity Insurance Scheme. — The Board of Trade, with the approval of the Treasury, has decided that, in respect of the period commencing December 3, 1943, and ending March 2, 1944, the rate of premium payable under any policy under the Commodity Insurance Scheme shall be 5s. per cent. for three months (or 1s. 8d. per cent. per month). The new rate is a reduction of one-third on the rate for the current period.

Petrol Coupons.—The attention of persons who receive "E" or "S" petrol coupons from the Ministry of Fuel and Power is directed to an important new requirement. Henceforward the recipient of these coupons must enter in ink, in the space provided for this purpose on each coupon, the registration number of the vehicle specified in the application in response to which the coupons were issued. This entry must be made on the coupon before it is tendered to a supplier of petrol.

Flavouring Compounds.—The Ministry of Food announces that, under the provisions

of the Soft Drinks Order, 1943, manufacturers of flavouring compounds are required to hold a licence, since many such compounds are included in the definition of "soft drink" laid down in the Order. The flavouring compounds referred to are those consisting of citric acid, colouring matter and preservative, together with essences or essential oils, and in some instances fruit juices used by manufacturers in the production of soft drinks and other foodstuffs. The Ministry is prepared to consider applications for licences from concerns which were engaged in the manufacture of such compounds prior to May 1, 1942. Forms of application have been circulated, but any eligible manufacturer who has not received a form should write to the Ministry of Food, St. John's College, Oxford.

Sale of Retailers' Stocks by Tender.—The Board of Trade has issued a general licence under the Price-controlled Goods (Restriction of Resale) (No. 2) Order, 1942, relieving retailers of the need for a special licence under that Order for a sale by tender which is licensed under the Sales by Auction and Tender (Control) Order (S. R. & O., 1943, No. 58). Applicants for licences under the latter Order need not therefore state whether the sale price is above or below the vendor's cost price, nor whether the goods were bought direct from the manufacturer or importer. They must, however, satisfy the Board that they have complied with the requirements of Article 6 of the Order, must describe their arrangements for the surrender of coupons in respect of any rationed goods included in the sale, and must confirm that the sale does not include, without specific licence, any goods of which the sale is otherwise prohibited.

Drug Tariff Changes.—The Drug Tariff for October 1943 lists, in addition to the usual drug price alterations, several changes in the prices of various bandages, wools, lints, and protectives in frequent use.

Admiralty Pharmacists.—Mr. Linstead asked the First Lord of the Admiralty, on November 2, whether it had been decided to take any action upon the recommendation of the Kennet Committee to cancel the deferment of pharmacists in the pharmaceutical department of the Admiralty between the military ages of twenty-five and thirty years. Mr. Alexander, in reply, said that no recommendations had been made by the Kennet Committee to cancel the deferment of pharmacists in the Admiralty who were aged twenty-five or over at the date of their registration.

World Trade Union Conference. invitation of the Trade Union Con a world conference of trade union le will take place in London on June 5, 1

Scabies Notifiable in Dublin.—By a sion taken recently by local health au ties in Dublin, scabies is now a noti disease.

Commercial Travellers' Benevolent tution.—The annual court of governor be held at the London Offices of Institution, 4b Frederick's Place, Lo E.C.2, at 12 noon on December 29.

Civil Service Health Scheme.—A re medical service available to the wh the staff of the Civil Service was inaugu on November 1. The organisation w under the control of Sir Henry Bashf Treasury Medical Adviser.

Synthetic Rubber Import Duty.— Treasury has issued the Import D (Exemptions) (No. 4) Order, 1943, exe ing from general *ad valorem* duty ce forms of synthetic rubber. The comes into operation forthwith.

Reminder to Scottish Chemists.—A c spondent writes: Retailers may li reminder that supplies of blackcu purée can only be obtained from one plier; it is necessary for the chemi nominate the wholesale house from w he wishes to receive supplies. Ros syrup from Scottish rose-hips is no distribution, and the demand is stead

Information About Trusts.—In the H of Lords, on November 3, Lord Stra asked what action, if any, had been t following the issue in 1919 of a repo the Committee on Trusts appointed b Ministry of Reconstruction. The r given by Lord Templemore, stated tha action taken on the recommendations c Committee resulted in the passing o Profiteering Act, 1919. He understood the duty of the Board of Trade to o information about the nature, extent development of trusts, and similar com tions, had lapsed when the Act itself la in 1921.

Food Labelling Requirements.—The liamentary Secretary to the Ministr Food has announced that a new regul is to be made giving the Ministry p to restrict the making, in advertisen of food, of claims or suggestions o presence in the food of vitamins or min The enforcement of any specific o issued under these powers will be entr to local authorities, who will usuall

red, however, to obtain the Minister's nt before proceedings are taken. A e Paper published on November 9 that the Minister of Food will issue s creating standards for particular as necessity arises. A proposed rement is that in general pre-packed s of food shall bear a label indicating llowing particulars :—

ame and address of the packer.
ommon or usual name, if any, of the food.
inimum quantity of food contained in the kage.
ommon or usual names (but not the portions) of the ingredients of the food.

thport Post-war Advertising.—South-Chamber of Trade has inaugurated a war traders' Press advertising scheme e publicity to Southport as a shopping e. A minimum of £2,000 is aimed at, he Corporation is to be approached to ribe an equal amount. Several traders already subscribed £100, and other er sums have been received.

e Assistants' Examination.—The fol- entrants passed in the recent tants' Examination held by the naceutical Society of Ireland: John n, Josephine Bourke, Rosaleen Mary , Jeremiah Cuddy, Kathleen M. B. gan, Kathleen Kennelly, Michael d Lynch, Mairead M. Ni Doghair, Ni Suilleabhain, Joseph Christopher n, Dympna Mary O'Mahony, Edward ony Rogers, Richard Francis Shaw. ty-six candidates sat.

ug and Chemical Workers' Wage .—The wage rates of drug and ical workers have recently been ed, the sixth revision since the out- of war, the Drug and Fine Chemical ufacturers' Association having just the following changes in its minimum rates. The rates for male adults have increased by 4s. and those of females s. The rates after the change are 79s. and 74s. respectively for classes I, d III. Females, 54s. 6d. and 48s. 6d., es I and II, respectively. Male junior are now 22s. at fourteen years of age, to 55s. at twenty. Females, 22s. at een, rising to 41s. at twenty. Payment ese revised rates is retrospective, and me operative on the pay-day on ber 7, or the first thereafter.

alibut Capsules for Liverpool Police.—bers of the Liverpool Police Force are ceive a three months' supply of halibut oil capsules, one to be taken daily, to off colds and other seasonal ailments. Last winter's experience indicated that the capsules were effective in reducing colds and improving health records.

Eire Grease Paint Supplies.—Chemists in Eire have been urged to sell their supplies of grease-paints only to professional stage artists. Miss J. McGrath (Crystal Products (Eire), Ltd.) states that no shortage of grease-paints or their ingredients existed so far as her company was concerned and chemists could receive ample supplies.

Edinburgh Dispensers' Salaries.—Edinburgh Town Council, on October 28, agreed that the post of senior dispenser at the Western General Hospital should be discontinued in favour of a new post of chief dispenser, and adopted new salary scales, subject to review after twelve months. The new scales, which are in force as from May 1943, are as follows:—Chief dispenser, £300–£350; male assistants, £250–£300; female assistants, £225–£275; unqualified female assistants, £150–£180.

Health and Industrial Efficiency.—The Department of Health for Scotland has issued a 56-page booklet entitled "Health and Industrial Efficiency—Scottish Experiments in Social Medicine" (H.M. Stationery Office, price one shilling net). An introduction states that the Central Health Department has long been concerned at the extent of incapacitating sickness. For example, in 1938 the estimated insured population was 1,838,000, or 37 per cent. of the total population, and the total volume of incapacity recorded was 25,875,264 days, an average of 14·8 per cent. of the total.

Vitamins Lecture at Nottingham.—A joint meeting of the Nottingham Branch of the Pharmaceutical Society and University students was held on October 28, when a lecture was given by Dr. Catherine Coward, D.Sc. (Reader in Biochemistry, University of London), on "Vitamin Supplies in Wartime." Mr. W. Lee presided. Dr. Coward dealt with the production of vitamins, their therapeutic use, suggested daily requirements and methods of estimating. She described how the Pharmaceutical Society, through its nutrition department, had collaborated with the Ministry of Food and claimed a share in the production of the "national loaf." She told how the Society tested samples of magarine bought at random on behalf of the Ministry, and helped in many other ways. Many questions were asked and answered, and a vote of thanks was proposed by Mr. I. Lawson, M.P.S., and seconded by Miss Burrows.

LEGAL REPORTS

Criminal Abortion and Conspiracy.—Christopher Henry Williams, Ph.C., Old Kilmainham, Dublin, was sentenced to seven years' penal servitude in the Dublin Circuit Criminal Court, recently, on one charge of criminal abortion and two counts of conspiracy.

D.D.A. Offence.—At West London Police Court, recently, Brenda Dean Paul, Old Church Street, Chelsea, was sentenced to six months' imprisonment for being in unauthorised possession of dangerous drugs. She pleaded guilty to three charges of being, on different dates, in possession of 20 gr. diamorphine. It was stated that she had used an assumed name to place herself in the care of a doctor, without disclosing that she was already receiving treatment from another medical man.

Arsenic in Gelatin.—A charge of selling gelatin containing an excess of arsenic, brought in the Wolverhampton police court recently against John Harold Coleman, M.P.S., was dismissed. On a charge of supplying the gelatin, George Stebbings, Dodlington, Wellingborough, was fined £10 and costs. Stebbings said he was not a manufacturer of gelatin and knew nothing whatever of its composition. He was an agent for sausage skins, but bought a quantity of gelatin for his son, a manufacturing butcher and, having a small quantity on his hands, offered it to a traveller, making no profit on the transaction. He accepted responsibility for selling the gelatin, but not for its contents. He had received no warranty, nor did he give one.

Pharmacy Act Prosecution.—At Stratford, London, Police Court, recently, summonses against Hitchman's Dairies, Ltd., North Circular Road, London, E.4, of selling San-Izal without being on the local authorities' list, and of selling the poison from unregistered premises without the name and address being clearly marked on the label, were dismissed under the Probation of Offenders Act on payment of costs. The chairman of magistrates said, "I know that several small shopkeepers do not know about these regulations. I saw one man selling spirits of salts the other day. He was not registered and had no idea that he had to be before I told him. I think these shopkeepers should be warned. It is hardly fair to them, as the persons supplying them with the goods do not bother to ascertain whether they are registered to sell them or not."

COMPANY NEWS

F. Ashwell & Co. (Plaistow), (P.C.).—Capital £500. Manufactu analytical, photographic and dispen chemists, etc. A. D. Gibbs and H. L. son, directors. R.O.: 2 Settle Street, P tow, London, E.13.

Solwhite Chemical Co. Ltd. (P.C Capital £100. Manufacturers of and de in chemicals, drugs, disinfectants, t requisites, etc. Arthur J. and Mrs. Alic Woodeson, directors. R.O.: 414–16 Wa Road, East Molesey.

Homepacs, Ltd. (P.C.).—Capital £2 To acquire the business of a manufactu chemist carried on by Sydney Tatlo 26 Stead Street, Eckington, Shef Sydney Tatlow, M.P.S., Nathan Davis Harold J. Latham, directors. R.O.: Church Street, Burslem, Stoke-on-Tre

Bates & Hunt (Chemists), Ltd. (P —Capital £25,000. To acquire the bus of chemists carried on by the executo the late F. E. Hunt as "Bates and H at New Street, Wellington, Salop. Ed R. K. Hunt and Catherine F. Jones, d tors. R.O.: 20 Market Street, Wellin Salop.

———

Evans Sons Lescher & Webb, L Mr. Ian Fergusson has been appo chairman in succession to the late M Herbert E. Evans.

Savory & Moore, Ltd.—The follo new appointments are announced: T board of directors—Messrs. S. G. Steve M.Sc., B.Pharm. (Lond.), F.I.C., A Chem.E., Ph.C., H. F. Stapley, M.P.S. Major R. W. Vernon Neathercoat, Joint assistant managing directors—M H. A. R. Russell and S. G. Steve Assistant secretary—Mr. Sydney J incorporated accountant. To the boa G. S. Mascall, Son & Co., Ltd. (su instrument manufacturers)—Mr. T. Proudfoot, F.I.B.S.T. Mr. Russell pointed a director in 1942) has been s tary of Savory & Moore, Ltd., since Mr. Stevenson is manager of the comp works and laboratories. Mr. Stapley been for some years manager of the pany's pharmaceutical department retail establishments. Major Vernon N ercoat is at present with the Forces. Jones has been chief accountant t company for many years. Mr. Prou has been manager of the company's su department for over twenty years. A continue to hold their present positio the companies.

TOPICAL REFLECTIONS

l Distributors' Council

e formation of a Council of Retail ibutors (p. 469) appears to have been ed on sound lines. Even at that early of organisation it was stated that the try had been divided into ten areas orking purposes, a more useful piece nformation than the time-wasting alities sometimes indulged in at con- ces. The preliminary objection of H. G. May that the new body would uperfluous because existing organisa- of small traders cover the field is h examination. The same thought have occurred to some of your readers; of us, in fact, are disposed to exclaim similar occasions, "What! another council!" The original promoters of new Council have, no doubt, duly hed this consideration before putting convictions to the test of public n. The fact is that some trade organ- ons, after the first enthusiasm of their hing has spent itself, settle down to mdrum routine and fail to fulfil the s of their founders. One of two things ndicated in such cases—either a re- ng of the articles of association or the ation of a new body to deal with a new tion. It will be noted that at the lon meeting referred to the formative ution was carried by approximately votes to six. Hostility to existing trade nisations was expressly disclaimed, the ntion being, on the contrary, to provide n with a unifying authority. Without mpting to summarise the discussion, ay note with satisfaction the concern essed for the future of some of the to be released in due course from the es, men who will be returning to what be called a void. They will be glad to w that one group is working for them.

Labelling of Substitutes

t the October meeting of the National rmaceutical Union Executive (p. 461) was announced that the Executive nsidered the method that should be pted for the labelling of authorised rnatives for sal volatile and sweet it of nitre. . . ." This is so important natter that early publication of the hod selected by the Executive is much be desired. Pending such publication, mists in business will do well to avoid ping old labels in service for these stances, even if corrected in ink: the of written labels suitably worded is preferable. Few pharmacists are old enough to remember the first court proceedings under the Sale of Food and Drugs Act, 1875; but many have a clear recollection of the epidemic of pettifogging prosecutions that broke out in a few London boroughs twenty years ago, when test prescriptions were distributed. That epidemic became, as a side-issue, a lay Press "stunt." Another objectionable incident was the curt refusal of a bench of magistrates to grant costs against a council that lost its case when prosecuting a local pharmacist. In contrast, a London stipendiary magistrate, in a case heard in 1899, remarked that "no reasonable person would try and twist the [Sale of Food and Drugs] Act round to enforce absolute exactness in a prescription." Since that date, limits of permissible error in dispensing have been widely accepted by responsible persons. Reasonable tolerances in weighing and measuring and the correct labelling of alternative substances are two facets of the same problem, namely, the supply of what is demanded by the purchaser or by his medical attendant on his behalf. During the present emergency of short supplies there is often a risk of misunderstanding as to what is asked for.

Cartels

The rôle of cartels in industry has again come into prominence (p. 467). At the risk of being charged with vain repetition, I may point out that the fundamental question to be answered is, "What is the optimal size for the working unit?" If a cartel becomes too large, deterioration will set in, and the results will become evident in various quarters. Granted maximum efficiency, the value of cartels in several directions needs no demonstration. Stabilisation of prices, maintenance of quality, regularity of employment, are among the most obvious benefits. Writing to "The Times" recently on this topic, Lord McGowan remarked: "In wages, salaries, conditions of employment, welfare, and relations between labour and management, it is, I think, true to say that conditions have been markedly better in cartelised industries than in those which have remained in a less advanced stage of organisation." Where, in fact, are most of the amenities for employees to be found—playing fields, canteens, air-conditioning, and the rest? The answer is that we find them chiefly in the largest manufacturing concerns, the cartels.

Xrayser

TRADE NOTES

Iodised Throat Tablets.—Johnson Agencies (Proprietaries), Ltd., Clarendon Road, Croydon, Surrey, claim instant success for their speciality, Johnson's special iodised throat tablets.

Revised Prices.—Potter & Clarke, Ltd., 60 Artillery Lane, London, E.1, draw attention to new prices for the three sizes of Dr. Thompson's dandelion coffee and two sizes of dandelion coffee essence. Details are given in another page.

Agencies in Southern Africa.—Raymont & Brown Proprietary, Ltd., P.O. Box 7524, Johannesburg, invite inquiries for the sole representation in Southern Africa of drug-trade supply companies in this country. See announcement elsewhere in this issue.

Inexpensive Vaporiser.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, draw attention to Greenbury's vaporiser, a simple apparatus for vaporisation of medicaments by means of heat. There is no purchase tax on this item, which is especially suitable for use with the company's own product Vapo Cresolene.

Changes of Size.—E. C. de Witt & Co., Ltd., 2 Cherry Orchard Road, Croydon, Surrey, state that the Control of Tins Order has necessitated withdrawal of the 3¾-oz. size of De Witt's antacid powder. In its stead a new 5-oz. size has been introduced. The prices are now 2s. and 3s. 4d. plus tax. Discounts are unchanged. The product is price-protected under the P.A.T.A. scheme.

Pile Ointment.—The pack of Naldek ointment for piles, formerly known as Dr. Van Vleck's pile plasma, has now been modernised by the makers, The Dr. Van Vleck Co., Ltd., 3 Fleet Lane, London, E.C.4. and the preparation will be extensively advertised under the new registered trade name. Advertising will appear in both the national and provincial Press, and local stockists' names will be included in provincial advertising.

Insulin—Hospital Packing.—The makers of insulin A.B. and insulin Wellcome brand announce that, following the adoption of improved production methods, the prices of these products will be reduced on January 1, 1944, to correspond with those now in force for H-A-B insulin and insulin Hospital Packing (B.W. & Co.). In consequence the issue of hospital packings will cease on that date, and the makers will supply insulin A.B. or insulin Wellcome brand whenever insulin is ordered.

Veterinary Research Station.—The V come Foundation has acquired the Grange estate, Frant, Sussex, for purp of veterinary research. The station wi known as the Wellcome Veterinary search Station and will be under the d tion of Dr. R. F. Montgomerie, Ph B.Sc., F.R.C.V.S. (veterinary rese director at the Wellcome Physiolo Research Laboratories, Beckenham), the resident veterinary surgeon will be S. L. Hignett, B.Sc., M.R.C.V.S. mansion is at present requisitioned H.M. Government but, so soon as vacated, will be converted into laborato

Business Changes

Mr. J. Brummer, dealer in fine chemi has removed to 44 Sinclair Grove, Lon N.W.11.

The Proprietary Articles Tr Association has removed its Bed office to 26 The Embankment. Teleph Bedford 4847.

Johnston & Adams, Ltd., have acqu the business of Mr. William Sime, M. 146 Lochee Road, Dundee.

Proprietary Articles Trade Associa

Additions to Protected List.—*Glaxo La tories, Ltd.* Ampoules of Anethaine (sp 10-mgm. (freeze-dried sterile powder), bo six, 90s. doz., tax 15s. doz., inclusive retail p 11s. 3d.; box of 25, 360s. doz., tax 60s. i.r.p. 45s.; 20-mgm., box of six, 112s. 6d. tax 18s. 9d. doz., i.r.p. 14s. 1d.; box o 450s. doz., tax 75s. doz., i.r.p. 56s. 3d.

Alterations—*Morgan's Pomade Co.*, Morgan's pomade, quantity terms to reta (i.e., 7½ per cent. on three doz. or 10 per on six doz.) withdrawn.

Newton, Chambers & Co., Ltd. Izal t soap, 4s. 4½d. doz., tax 1s. 5½d. doz., i.r.p. 6

Chas. H. Phillips Chemical Co., Ltd. Co tion: Milk of magnesia tablets, 6d. and 3s sizes are still available in Eire.

A. Wander, Ltd. Price increase, Novembe Vimaltol, 1-lb., 3s., 27s. doz., 2-lb., 5s. 49s. 6d. doz. (exempt from tax).

Deletions.—*International Chemical Co.*, Lavona hair tonic; *Jackel et Cie (of P Ltd.* Article deleted should read Oilafix rection); *Phensic, Ltd.*, boxes of forty-d 3½d. packets; *Chas. H. Phillips Chemical Ltd.*, Milk of magnesia tablets, 6d. and 3s sizes, deleted (correction); *Pompeian Co.*, Pompeian vanishing and cold creams, t only deleted (correction); *Savory & M Ltd.*, Savory & Moore's food, 7s. 4d. size; *Drug Co., Ltd.*, Veno's cough cure, 3s. 3d. s

THE N.P.U. TODAY AND TOMORROW

MACISTS from many parts of North-rn (No. 3) district of the National maceutical Union attended a meeting at the Adelphi Hotel, Liverpool, on mber 3, to hear an address by Coun-W. J. Tristram, J.P., on "The N.P.U.: Vork Today and its Plan for Tomorrow." J. L. HIRST presided. He referred to ggestion for a Pharmacy Commission, e Beveridge report and to the possi-of a Joint Industrial Council, all of h, he said, would ultimately be for the rment of pharmacy.

UNCILLOR TRISTRAM said the N.P.U. anxious that, despite difficulties, branches should continue to function ctively as possible. The organisation nittee had been asked to consider the tion of branch meetings in war-time, its recommendation had been that ad of members of the Executive com-e travelling to other areas, they should ess meetings in their own divisional s. It had been recommended that two ings should be held during the next ve months in each of the sixteen divi-l areas. All members of the N.P.U., her attached to a branch or not, would nvited. That day's meeting was the of the meetings to be held in the entire ntry. Membership of the N.P.U., said Tristram, was constantly increasing, the organisation now represented 93 cent. of the chemists in private business sure sign that it was rendering a service ch was as necessary in time of war as s in the days of peace. After explaining the N.P.U. was helping the chemist, went on, "What we did not anticipate new legislation in war-time which ld sweep away the privileges we have yed for 100 years. That is what the rmacy and Medicines Act, 1941, did. have not felt anything like the full ct of it, because manufacturers are not looking for new outlets. The 1941 (1) opens a free market in the sale of licines, (2) deprives us of our privileges, (3) leaves us with no reservation in the of proprietary medicines, except those taining poisons. I have never appre-ed what we got out of the Act except a t increase in the number of our com-itors."

C.F. Scheme

Manufacturers who had joined the emists' Friends scheme totalled 126, and re were over 5,000 C.F. lines restricted to chemists. The value of the scheme had been greatly enhanced by the 1941 Act, for the only proprietary lines which would be restricted to chemists in the post-war years would be the C.F. lines. The formation of the Standards Committee had been the first serious attempt in this country to compile a list of proprietary medicines which were satisfactory, not only to the manufacturer, but to chemist and public.

Concerning proposals for a pharmaceutical service within a national medical service, Councillor Tristram gave reasons for using and developing existing facilities, including pharmacies suitably equipped, a twenty-four-hour rota service where necessary, and delivery facilities where required. If the existing service was to adapt itself to the new demands, it must have security for the future, and this had led to the proposal for a Pharmacy Commission. For the Government's plan they had to await the White Paper, which might be issued at any time. The N.P.U. Executive's proposed amendments to the existing N.H.I. services would achieve the separation of dispensing and prescribing which chemists had long called for. There would be little, if any, private dispensing, but there would probably be 200 million N.H.I. scripts per year. The N.P.U. plan was to secure for the chemist in business the dispensing under a comprehensive State medical service.

Discussion

In discussion, attention was directed to cases where doctors prescribed proprietary medicines which had to be supplied at cost price, though chemists were asked to remove the supplier's label and to affix their own. In such cases, the chemist ought to be entitled to a dispensing fee. When that fee was charged, the prescription should be coded and stamped in the manner recommended by the N.P.U. It was also stated that some firms put certain products on the C.F. list, but arranged for other goods not on the list to be distributed in various other ways, such as through subsidiary companies; these cases ought to receive the attention of the N.P.U. Executive. A member referred to the list prices of loose drugs and suggested these needed correction. It was not satisfactory to sidestep the issue by just making deletions from the list; some of the prices were the same as pre-war. COUNCILLOR TRISTRAM promised to raise the question in London.

PERSONALITIES

Ex-Bailie A. W. Ritchie, M.P.S., has been appointed Provost of the Royal Burgh of Montrose. Provost Ritchie has been a magistrate for six years. He is a member of the North British Executive and the Standing Committee.

Mr. I. M. Heilbron, D.S.O., F.R.S., D.Sc., Ph.D., F.I.C., Professor of Organic Chemistry, Imperial College of Science and Technology, and Scientific Adviser to the Director of Scientific Research, Ministry of Supply, has been awarded the Royal Society's Davy medal for notable contributions to organic chemistry. With his associates Drs. J. R. Catch and A. H. Cook he recently produced a pure salt of penicillin.

Mr. William John Tristram, J.P., M.P.S., who has been co-opted to the Council of the Pharmaceutical Society (*see* p. 499) following the resignation recently of Mr. H. W. Wallis, is vice-chairman of the National Pharmaceutical Union, president of the Liverpool Chemists' Association, and a member of the Pharmaceutical Parliamentary Fund Committee. He qualified in 1919 and has been active in local Government work in Liverpool, where he is a City Councillor and a member of various committees. Mr. Tristram is in business for himself in Liverpool, and has represented the local branch at Branch Representatives' meetings on a number of occasions. In 1939 he visited Finland and Denmark. In 1941 he became chairman of the Liverpool Committee of the National Savings street groups scheme.

Mr. Samuel Norman Pickard, J.P., M.P.S., 9 Wesley Street, Ossett, who celebrated his golden wedding recently, served his apprenticeship in Wakefield, and was in business for himself for eight years in Bradford before taking over the business of the late Mr. J. W. Cousins, Ossett. Mr. Pickard has been very actively associated with various pharmaceutical organisations. He has been a chairman of the board of directors of the Chemists' Defence Association, a member of the West Riding Insurance Committee for thirty-one years, and its present chairman; a member for nearly fifty years, and for a time chairman, of the retail section of the Proprietary Articles Trade Association; chairman of the West Riding Pharmaceutical Committee for twenty years; chairman of the Leeds Branch of the Pharmaceutical Society; and president, Dewsbury and District Chemists' Association.

MARRIAGE

Presslie — Tawse. — At St. Ma Chapel, East Church of St. Nicholas, Al deen, on October 20, Robert Presslie, M.P 40 Garthdee Drive, to Annabella Morri Tawse, Aberdeen.

DEATHS

Blyth.—At a Glasgow hospital, November 5, Edward Blyth, M.P.S., Hairst Street, Renfrew, Scotland. Blyth qualified in 1914.

Durham.—In action over Germany September 1941, Sergeant-Pilot Eric Vi Durham, R.A.F., M.P.S., 3 Templar R North, Oxford, formerly of Water Liverpool. Sergeant-Pilot Durham quali in 1936.

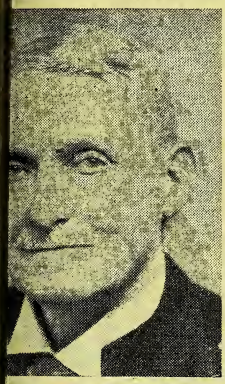
Evans.—On November 1, James Herl Everett Evans, The Blossoms Ho Chester, chairman of Evans Sons Les & Webb, Ltd., Liverpool, aged sixty- A son of Mr. J. J. Evans (a former chair of the company), Mr. J. H. E. Evans the last director to bear a name form part of the title of the company. He t a prominent part in the re-establishm of the firm at Speke two years ago, a the premises at Hanover Street, Liverp had been destroyed by enemy act Mr. Evans was found dead in a comp ment of a train travelling from Cheste Liverpool. He had been living at Che since the outbreak of the war.

Eyles.—Recently, Mr. Joseph Ey M.P.S., 155 Whalley Old Road, Blackb aged sixty-two. One of the oldest mem of the Blackburn Chemists' Associa and of the North-east Lancs Branch of Pharmaceutical Society, Mr. Eyles served on the executive of both bodies a long period and was elected local presid in 1930. He was a native of Blackburn had been associated with pharmacy over forty years. He had few inter outside his profession but took an ac part in a Pharmacy Publicity W inaugurated in Blackburn in 1929. At interment, on November 4, there v present representatives of the Phar ceutical Committee, of which he wa member, the Blackburn Chemists' Asso tion, the North-east Lancs Chemi Association, and the local branch of National Pharmaceutical Union.

Gregory.—Recently, Mr. Percy Herb Gregory, Brackley Road, Heaton Cha Manchester, aged seventy-seven. Until retirement in 1929 at the age of sixty-th

Gregory was the secretary of James ley, Sons & Co., Ltd., wholesale ists, Manchester. He was also a former lent of the Chartered Institute of taries.

OTT.—On October 29, Alderman Knott, J.P., M.P.S., 1 Blackburn Road, Bolton, aged seventy-eight. Alderman Knott was born at the shop in Blackburn Road, Bolton, at which he was in business as a chemist for fifty-one years. The business was established by his father, the late Mr. Robert Knott, who qualified ninety-five s ago. Later another shop was opened stley Bridge, Bolton. Alderman Knott been at various times secretary and ident of the Bolton Branch of the rmaceutical Society. He was elected he Bolton Town Council in 1911, and continuously a member until his h, having been elected an alderman 928 and mayor in 1925–26. One of the nominees of the Town Council on the on Insurance Committee, Alderman tt was appointed vice-chairman upon formation, and in June 1938 became chairman. He also represented the n on the Lancashire Prescription eau from July 1934 onwards. He was en photographer, and also had a most plete record of birthdays of his ciates. He had been a teacher and etary for first-aid classes under the John Ambulance Association. An husiastic volunteer in pre-Territorial ny days, he had earned the long-service dal of the Second Volunteer Battalion, yal North Lancs Regiment. He was a mber of the St. John's Lodge of Freesons (No. 221), and was a past-brother the Grand Deacons of the Order.



Alderman Percy Knott

TREET.—Recently, at Newlands, High lme, Louth, Mr. Walter Charles Street, P.S., J.P., aged eighty. Mr. Street alified in 1878 and for fifty years carried business in Louth.

COMING EVENTS

Sunday, November 14

LIVERPOOL BRANCH OF THE CATHOLIC PHARMACEUTICAL GUILD, Cathedral Buildings, Brownlow Hill, at 3 p.m. General meeting, followed by benediction in the Oratory.

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble from Birch Vale. Meet London Road Station, 9.30 a.m. Book Birch Vale return. Carry lunch.

Monday, November 15

EDGWARE DIVISION, NORTH LONDON PHARMACEUTICAL ASSOCIATION, Brills' Restaurant, 206 Station Road, Edgware, at 7.30 p.m. Mr. H. Noble, B.Pharm., on "War-time Commodity Controls."

Tuesday, November 16

CROSBY PHARMACISTS' ASSOCIATION, Waterloo House, 7 Crosby Road South, at 7.30 p.m. Discussion on "Pharmacy and State Control."

CHEMICAL SOCIETY, University Lecture Theatre, Teviot Place, Edinburgh, at 7 p.m. Professor M. Polanyi, M.D., Ph.D., on "The Strength of Carbon Bonds."

COSMETIC AND TOILET PREPARATIONS TRADE ASSOCIATION, Holborn Restaurant, 218 High Holborn, London, W.C.1, at 3.15 p.m. Mr. F. E. Shoninger (Antoine Chiris, Ltd.) on "Essential Oils and Floral Substitutes: Is their Substitution Possible whilst Maintaining Production Standards?"

Wednesday, November 17

BATH BRANCH OF THE PHARMACEUTICAL SOCIETY, 9 Kingston Buildings, Bath, at 7.45 p.m. Annual meeting.

ABERDEEN AND NORTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Caledonian Hotel, Aberdeen, at 3 p.m. Mrs. J. K. Irvine, M.B.E., on "The Democracy of Pharmacy."

Thursday, November 18

CAMBRIDGE AREA, NATIONAL PHARMACEUTICAL UNION, Lion Hotel, Petty Cury, Cambridge, at 3 p.m. Mr. J. Evans on "The N.P.U.: Its Work Today and its Plan for Tomorrow."

Friday, November 19

NORTH BRITISH BRANCH OF THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 36 York Place, Edinburgh, at 7 p.m. Mr. James Robert Matthews, M.A., F.R.S.E. (Professor of Botany in the University of Aberdeen), on "Some Aspects of Modern Botany."

At the Peak.—Production of equipment for the Forces on land, sea and in the air is now at its maximum. It is vital that the salvage of waste paper should be adequate. Every scrap is wanted.

NORTH BRITISH EXECUTIVE

A MEETING of the Executive of the North British Branch of the Pharmaceutical Society was held at 36 York Place, Edinburgh, on October 27, the vice-chairman (Mr. John Anderson) in the chair. MR. ANDERSON regretted the absence of the chairman, who was, he said, benefiting from an enforced rest. It was agreed to send a letter to Mr. Hay, expressing the wish that the improvement in his health would be maintained.

The Late Mr. Donald McEwan

THE VICE-CHAIRMAN referred with regret to the passing of Mr. Donald McEwan who, for a long number of years, had taken an active part in the affairs of the Society. Mr. McEwan had been a frequent contributor to the evening scientific meetings, and had regularly attended the annual meetings of the Society, also acting as scrutineer at the annual election of the Executive and as invigilator at the written examinations. Mr. McEwan would be remembered for his usefulness, kindliness and good nature. A letter from Mr. Hay recalled that the writer had worked in pleasant association with Mr. McEwan in the business of Duncan, Flockhart & Co. for a number of years. He had been a keen dispenser and was deeply interested in the Assistants' Association.

MR. JACK said that from 1885–87 he and Mr. McEwan had been dispensers together in Messrs. Duncan, Flockhart's pharmacy, and he would like to associate himself with what had been said regarding Mr. McEwan.

MR. INNES said he also would like to be associated with the vice-chairman's statement, having been in close contact with Mr. McEwan as a deputy invigilator.

MR. HARLEY said that Scottish pharmacy had lost a great deal with the passing of Mr. McEwan, who was one of the best practical pharmacists Scotland had ever had.

From the Minutes

THE RESIDENT SECRETARY reported that, as instructed at the previous meeting, he had obtained from London permission to proceed with repairs to the roof at 36 York Place, and these repairs had now been satisfactorily carried out. At the previous meeting it had been intimated that Mr. Home was to furnish, for their information, a scale of hospital salaries: this information had now been received. The doctor author of a book on venereal disease, in which the words "quacks and dispensin chemists" had been used, had been writte to by the resident secretary on instructior from the Executive, and the reply had bee received: "To avoid any future ambiguit I shall be happy to arrange . . . that tl words 'and dispensing chemists' will b deleted in any future edition." The Execu tive agreed that this guarantee wa satisfactory.

National Health Services

MR. BENNETT said that a joint meetir had been held in London on June 30 a which he and Mr. Meldrum had been presen After some discussion—at which the Sco tish representatives had "put in the oar"—the joint meeting had reache decision on a memorandum on "The Bas of a Pharmaceutical Service within National Medical Service." The memora dum had been circulated to members the Executive, to the Standing Committ and to other interested parties. A lett had also been sent to divisional secretari advising them that the memorandum ha been published in the pharmaceutic Press. Following the joint meeting, meeting of the Pharmaceutical Standi Committee (Scotland) had been held, which it was agreed that Mr. Anders should be appointed to co-operate wi Messrs. Bennett and Meldrum as membe of a deputation that was to meet t Minister of Health on August 26.

MR. BENNETT reported that Mr. Hugh Linstead (secretary of the Society), in clear and simple manner, had put the ca for pharmacy before the Minister. He h been followed by two or three other speake Mr. Bennett himself had urged that t conditions in Scotland were so differe from those in England that it was necessa for Scotland to have a separate Commissic The Minister had informed them that was aware of the difference in conditio between the North and the South, a altogether their interview had been ve satisfactory.

MR. ANDERSON commended Mr. Bennet able handling of the situation at the Min try of Health. What Mr. Bennett had sa had definitely been appreciated by t Minister, and he thought they had reason to be dissatisfied with their pr liminary visit.

THE RESIDENT SECRETARY support Mr. Anderson's comments. He added th the Secretary of State for Scotland had n

n present, but that his deputy, Mr. Hender- had intimated that the Secretary of State ld be pleased to meet Scottish representa- s at any time. Corroboration of this state- it had been received in a letter from St. drew's House, on August 31, which, however, gested that the meeting should be deferred the outline of the general medical service been more clearly defined.

minations

HE RESIDENT SECRETARY reported that mination entries and results coincided ely with those of the previous year. The ort of the Board of Examiners for Scotland 1943 would be presented to the Council at next meeting and, after approval, circulated ach member of Executive. Mr. Innes, their uty invigilator, would succeed to the posi- n of chief invigilator left vacant by the th of Mr. McEwan.

cal Organisation

n place of Mr. McEwan the name of Mr. art, Haymarket Terrace, had been suggested divisional secretary for West Edinburgh. . Stuart had agreed to act, and the Executive ided to send the nomination to London. ere had been several seceders from member- p during the year, and a letter from the partment of Health intimated the names of men under agreement with Insurance mmittees whose names had been removed m the Register for non-payment of Retention . The Department had been informed that of the seceders had now paid and the other d closed his shop.

armaceutical War Committee

MR. BENNETT said that the Scottish Central armaceutical War Committee had found its k difficult. They had done their best, with assistance of the local committees, to pre- t the civil population being deprived of an ential pharmaceutical service, and the vernment departments on the whole, he ought, appreciated the work of the War mmittee. Certainly no serious fault had been nd with it. The Committee were now con- nted with a serious problem: they did not their way to provide any more men (or at st only only a few) for the Forces, and they d been asked to give reasons. The work cessary to provide information explanatory the position was being undertaken in an able anner by the local war committee.

MR. MILNE said that the local committees uld not release further men for the Services thout closing essential businesses. He hoped e Central Committee would back up the cal Committees and trust to their judgment what constituted an essential business.

MR. MELDRUM asked whether Mr. Bennett d any information concerning certain persons ho, communicating direct with the Ministry Labour, had received instructions contrary the directions of the War Committee.

MR. BENNETT replied that he had informa- on—and indeed almost proof—of such procedure having been adopted. He intended to take up this matter with the Central Committee.

Mr. Murray was informed by the resident secretary that the question whether the War Committee had received authority from the Ministry of Labour to change staffs over was under negotiation.

Benevolent Fund Covenant Scheme

Mr. Mair was reported to have been successful in obtaining a number of signatures under the Covenant Scheme; attempts were being made by other collectors to obtain signatures.

MR. GUTHRIE reminded the Executive that it had been decided to send a special note to members in Scotland, drawing their attention to the Covenant Scheme. What procedure would the Executive advocate now that the Council had decided to send out its own note?

It was agreed that there was now no need for the Executive to issue a note.

War Aid Fund

A letter received from Mr. Plowright accompanied a collecting box for the War Aid Fund. The Fund Committee was anxious that such boxes should not in any way compete with the Benevolent Fund boxes, but suggested that the interest of some of the Scottish branch secretaries and secretaries of Standing Committees might be obtained.

Attention was drawn to the fact that methylated spirit licence forms were constantly being received at York Place instead of being returned to the Excise Authorities.

C. & D. DISPENSING PRICE LIST

CHANGES in prices during October were small, leaving the index figure for the month at 134·4. The corresponding figure in 1942 was also 134·4.

Cost		*Due allowance is made for purchase tax in both cost and dispensing prices*	Dispensing price		
d.	*per*		4 oz.	1 oz.	1 dr.
			s. d.	*s. d.*	*s. d.*
13	oz.	Bismuthi oleas ..	—	1 11	0 4
9	oz.	Calcii lactophosphas	—	1 4	0 3
126	lb.	Colchici ang. pulv. (20) P.1 (8)	—	1 6	0 3
120	lb.	Dec. sarsæ co. conc. 1–7	—	1 6	0 3
38	lb.	Emuls. ol. morrhui c. hypoph. B.P.C.	1 6	0 7	—
11	oz.	Ferri et potass. tart.	—	1 8	0 3
14	lb.	Kaolinum leve ..	0 7	0 2	—
22	oz.	Lithii bromidum ..	—	3 3	0 6
14	lb.	Plumbi oxidum (litharge) ..	0 7	0 2	0 1
48	lb.	Syr. allii B.P.C. ..	2 5	0 9	0 2
105	lb.	Tr. benzoin. co. ..	4 2	1 3	0 2
12	oz.	Tr. calendulæ co. ..	—	1 11	0 4
39	oz.	Totaquina	—	6 4	0 11

DEPUTY SECRETARY IN SCOTLAND

(*Concluded from* THE CHEMIST AND DRUGGIST, *November* 6, *p.* 465)

MR. TEESDALE, Edinburgh, continued:—

The factual evidence assembled in Part I of the Report gave an actual picture of present pharmaceutical practice. Those facts, while they might be unpalatable to certain pharmacists, were undoubtedly true and had to be faced. The conclusions arrived at in Part II of the Report were sound. In discussing the requirements of Assumption B of the Beveridge plan, that part of the Report showed the lines which future developments should take. It was necessary to ask why the Council of the Society had ignored those conclusions in preparing their memorandum on pharmaceutical aspects of a national health service, except to propose the formation of a pharmacy commission. Did the Council disagree with paragraphs 14 and 15 of the Committee's conclusions, which said that only under public-service conditions could pharmacists find full scope to exercise their calling? It was obvious that that change could not take place overnight. The present dispensing facilities of the retail pharmacy would continue to be used for some considerable time and the change, while drastic, would not be hasty. Now, when a national medical service was being planned, was the time to point out the advantages to be gained.

Proprietary Medicines

MR. DRUMMOND, Edinburgh, said the section dealing with proprietary medicines was very important, particularly with the emphasis which had been thrown on that side of the question by the passing of the 1941 Act, which had given much wider distribution to those preparations. During the period of shortage and difficulty of supply, chemists were presented, he thought, with a first-rate opportunity for a re-orientation of the pharmacist's policy towards handling such preparations. The time was ripe for the setting up of standards. Extravagant claims should be controlled. With regard to Mr. Deacon's proposal the British Medical Association had recently set up a Public Relations Committee in their various branches, and he would recommend the Pharmaceutical Society to examine that question with a view to having a similar organisation set up throughout pharmacy.

MR. CURRIE, Leith, thought pharmacists should bear in mind that if they exercised their profession in a professional way would find the public would appre them and that the medical profession would appreciate them. The retail pha cist was suffering largely from followi the wake of the corporate bodies conducting his pharmacy on the lines general store.

Doctor and Pharmacist

MR. BATEMAN, Edinburgh, said tha the manager of a large "general store was in agreement with the view expr by Mr. Currie. In the business in w he was concerned, the ethical point of was never lost sight of and the profess side was conducted with the highest d of skill. He thought that if a store so small that it was necessary to mi professional and non-professional bra of the work, then the non-professional should be cut out altogether. On the tionship between doctor and pharmacis could not visualise the doctor consu the pharmacist as to what he would scribe. He thought this was totally w The pharmacist's duty was to supply t doctor's requirements, and to assist doctor if he asked for advice. He listened with interest to Mr. Teesd exposition of his ideas. He thought, ever, that the idea of running pharma a sort of machine to be kicked abou the will of doctors in clinics and ce would cause the pharmacist to lose personality and independence. He dered what would be the composition pharmacy commission. Would it be posed of pharmacists, of special peopl would it be mixed?

MR. HEDDERWICK, Edinburgh, said National Association of Newspaper prietors had taken a stand in acce only certain standards of advertising seemed that, in future, there would be necessary virtue in advertising—t That should help pharmacists.

MR. ORR, North Berwick, asked whe if pharmacists could not run their nesses without dabbling in other th this would not prove that there shoul an imposition of control in the openi pharmacies?

MR. SCOTT, Rosyth, said he unders that the Government were putting for a White paper. Before doing this, it usual for the Government to consult

e concerned. He would like to know Society had been consulted.

ent Secretary's Views

Tait said Mr. Adams's explanations een so interesting that they would late a desire to restudy the full t, and he hoped that this would be He agreed with the speaker. He ht close collaboration with doctors as scribing was most desirable. But for emist to be expected to prescribe rly when he did not know the patho- l conditions was absurd. The Report be very useful in connexion with ssions on the future national health es, and a deputation had already been red by the Minister of Health. Mr. ale's reference to the age of members e Executive was a little severe. He nally would welcome representatives ployees on the Executive and other s either by co-option or election. oyee organisations could secure repre- tion on the Executive at the forth- g election, which it was hoped would place next year. As individuals they t to be able to say what they wanted and to vote on it, but he had observed oyees refusing to vote on subjects on n they ought to have voted.

Speaker Replies

. Adams, in thanking the various bers who had taken part in the dis- on, referred first to Mr. Teesdale's rks on the addition of nominated bers to the Council and the organisa- of employee pharmacists. He said it been felt that if the Society were to rtake more public functions, it would ecessary to have more public repre- tion on the Council. It was for that n that an additional number of Privy- ncil-appointed members was suggested. ey considered the Society as a body erned only with pharmacists, then it ld probably be held that the suggestion an undemocratic proposal, but it was position of the Society in relation to public and the discharge of public tions that gave rise to the suggestion, from that standpoint he thought it d be argued that it was democratic. Council had made it clear that an tion would be held unless it were found racticable—not undesirable or incon- ient, but literally impracticable. With rd to the suggestion that there should an organisation of employee pharma- s, this was based upon the view that, as the Committee saw the situation, the existing organisations tended to organise pharmacists not primarily as such, but as shop assistants, or managers, hospital employees, or manufacturing employees, and only secondarily as pharmacists. It was felt that the proper course was to base the organisation of employee pharmacists on their position as pharmacists irrespective of the branch in which they were engaged.

Mr. Marshall, Edinburgh, intervened to say that he would like to correct Mr. Adams on his reference to the Association of Pharmaceutical Employees. This Association was controlled and governed by pharmacists. The only matters dealt with by the Shop Assistants' Union were wage agreements and conditions of labour. Otherwise, so far as professional conduct was concerned, the A.P.E. drafted its own memoranda and put them into force through its own members. In Edinburgh they had their own branch and their own secretary, who was a pharmacist. They had already drawn up a memorandum on medical service which was available to members at this meeting.

Mr. Adams continued that the Minister of Health had received a deputation consisting of representatives of the Pharmaceutical Society, the N.P.U. and the Pharmaceutical Standing Committee (Scotland), so it could not be said that the Ministry was not acquainted with the views of the Society and other organisations. With regard to Mr. Marshall's remarks, Mr. Adams thought the control that had been mentioned was not an absolute control, and that the policy of the A.P.E. was ultimately controlled by the Shop Assistants' Union. In conclusion, it seemed to him that, as pharmacists, they had no choice but to proceed along the lines—not necessarily the detailed lines—suggested. If that were the right course then, obviously, pharmacists should throw into the effort all the energy and intelligence and strength of will which they possessed.

On the motion of the Chairman a very sincere vote of thanks was awarded to Mr. Adams, and Mr. Beattie proposed a vote of thanks to the chairman.

Closed on Saturdays.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of The Chemist and Druggist, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the *C. & D.*, 17 Argyle Street, Bath, Somerset.

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L. CXL NOVEMBER 13, 1943 NO. 3327

e fact that goods made of raw materials short supply owing to war conditions are vertised in this paper or described in its torial columns should not be taken as an lication that they are necessarily available export.

War and the Public Health

the commencement of the fifth winter the present war it is extremely satis-tory to learn from no less an authority an Sir Wilson Jameson, chief medical cer to the Ministry of Health, that the alth of the nation is good. Speaking at Press conference in London on Novem-r 5, Sir Wilson told his hearers that no reases worthy of note have occurred ently in infectious diseases. It is true at measles, scarlet fever and whooping ugh are a little more prevalent but, as s pointed out, these diseases tend to cur in waves and the present slight in-ease has no particular significance. nteric fever, which is generally regarded a disease prone to occur more frequently war-time, is astonishingly low at present, record which is considered to be very od indeed. Unfortunately it is impossible publish figures, if such could be compiled, the incidence of minor ailments such as ughs and colds. These infections, how-er, invariably increase at this season of e year but the Ministry has no reason to lieve that their present prevalence is any eater than in past years.

Incidence of Influenza

With regard to influenza there appears to be no serious form of this infection in evidence at the present time, and indeed, in one recent week, only eleven deaths occurred from this cause out of twenty million persons covered by the statistics. The epidemic season for influenza, however, is not yet upon us, but it is emphasised that there is no more reason at present to suspect an influenza outbreak this winter than there was last year, and there is certainly nothing which would lead to the suggestion that such an epidemic, if it arrived, would be of the virulent type experienced towards the end of the last war. It is reassuring to learn that careful watch is kept for signs of any increase in influenza, a day-to-day check being made for this purpose.

Vital Statistics

The latest vital statistics for the quarter ended September 1943 provide evidence that the nation is entering the fifth year of war in extremely good condition. While it is true that minor sickness has assumed rather greater proportions, probably as a result of the war, serious long-term illness shows no increase. In the September quarter of this year the birth rate shows a rise and the final figure is expected to be the highest for any similar quarter since 1930. The still-birth rate is the lowest ever recorded for this quarter, being 2·9 per cent. of births. The infant mortality rate (about 40 per 1,000 live births) is equal to the lowest ever recorded in any September quarter but, even so, much more remains to be done to achieve an even lower figure than that at present returned. The general death rate is expected to be the lowest for the third quarter of any war year except 1942.

Tuberculosis and Cerebro-spinal Fever

The incidence of tuberculosis is held by the Ministry to be one of the most sensitive indices of the public health, and in this connexion the latest available figures are extremely reassuring. In the quarter ended June 1943, for example, deaths from respiratory tuberculosis were less than in the corresponding period of 1939, the provisional figure being 5,297, as compared

with 5,540. A slight increase is noted in deaths from tubercular meningitis, but in tuberculosis of all forms a smaller number of deaths occurred in the June 1943 quarter than in the same quarter of 1939, thus virtually wiping out the war-time increase in deaths from this particular disease. Early in the war a wave of cerebro-spinal fever caused some anxiety, but 1943 saw a great decline in incidence—back, in fact, to close to the pre-war position, the figures being: June quarter, 1943, 198 deaths, and June quarter, 1939, 152 deaths.

Diphtheria

It is perhaps significant that deaths from diphtheria in the quarter ended September 1943 were the lowest ever recorded for any quarter in the history of the country. Sir Wilson Jameson, commenting on this fact, stated that more than 50 per cent. of children under fifteen years of age in England and Wales had been immunised against the disease. Children in this country, he said, can be divided into two approximately equal sections, one half having been immunised. Figures of deaths during the period January 1, 1942, to June 30, 1943 (about eighteen months), show that of the 2,148 who died only sixty-two belonged to the immunised group. The number of children immunised against diphtheria under local authorities' schemes is now 4,400,000, the figure for the first half of this year being 650,000.

Marines or Mines

PHARMACISTS who have been called up in recent weeks have, we learn, been faced with the alternative of joining the Royal Marines or going down the coal mines. Not every man, even in this island country, can be expected to be sea-minded. Not all pharmacists are Grade One and fighting fit. In consequence, already a number of chemists have, we are advised, made their "choice," and have accepted service in the pits.

Should the Choice be Necessary?

The question arises whether it is either right or in the public interest that they should have to make such a grim decision, which can quite easily mean that they may never again practise their profession. Work in the mines is honourable and essenti and we are behind none in doing honour the heroism of men who face considera hazards to meet a basic national ne Nevertheless, there is no question but t this class of manual work renders a m unfit for certain other occupations, amo which is the handling of medicines. E supposing a pharmacist from the mi readily secures re-employment in pharma —and it can easily be supposed that ma employers will be reluctant to engage su a man—the reaction of customers has a to be considered.

What the Decision Involves

What, then, is to be the future of pharmacist who goes down into the pi It may be that he is condemning him to remain in an occupation in which costly four-years' training, accumula knowledge and manipulative skill are l to himself and the community. The loss a proportion of its personnel in this w might be of small importance to the p fession if adequate pharmacists were av able to fill all public needs. But what the facts? The truth must be faced that the commencement of the fifth winter war, the staff position in the civilian ph maceutical service is already precario while in the Services the picture is e worse. Potent medicines are being handl made up and dispensed by untrained only sketchily trained persons, while qu fied pharmacists are wasted on ward-cle ing, warehousemen's, and similar duties

The Future

Worse still is the prospect for the futu The nation has been promised a natio health service available to every citi for the whole of his life. To achieve suc closing of the wide gaps that exist in medical facilities of today, a considera increase in the number of doctors, and even greater increase, probably, in number of pharmacists, will be inevital To train the extra men and women nee as pharmacists will be a formidable ta even without replacing those who may regarded as legitimate victims of the w That the Ministry of Labour can offer called-up pharmacists only the choice "Marines or mines," is a waste of train

d knowledge needed by the community, d if all other branches of the Services are l, then the time has come to restrict ruitment of these last remaining groups more suitable sections of the population, d to retain in the already understaffed ilian pharmaceutical service such pharcists as are now due for call-up.

Death by Desiccation

SEARCHES summarised on another page vide an explanation of the known but herto obscure Achilles' heel of that structive pest the grain weevil: its vulrability to certain dry dusts. Three points ve been established. The action of the sts is not chemical, since a chemically rt dust effected the greatest damage. The chanism is closely related to a wastage of isture in the insect caused by contact th the dusts. Finally, there is an optimum rticle size. The person responsible for the earches (Professor H. V. A. Briscoe, of the Imperial College) is wisely cautious in drawing conclusions, but offers the tentative suggestion that the hard, sharp dusts which characteristically produce the observed effects are likely to exhibit even on their minutest edges and corners a substantially unimpaired molecular lattice in the surfaces. He deems it conceivable that this lattice, where it touches the membrane, attracts the covering film and so induces it away from the relatively structureless surface of the insect to cling to the crystal, leaving a bare patch on the membrane. Even if the "holes" so made form but a small proportion of the total surface, they may still account for the observed phenomena, since it has been shown that the rate of fusion of a vapour from many separate small holes is much greater than through a single hole of equivalent total area. Further work on the subject promises additional information of great potential advantage to mankind.

INSURANCE ACT DISPENSING

Lancashire.—The quarterly report of the ncashire Prescription Bureau, governing e boroughs and Westmorland County, ws the prescriptions dealt with during e quarter, April 1 to June 30, 1943, mbered 601,028, against 573,984 in 1942, d 553,219 in 1941. Costs for the respeve quarters of the last three years were: 43, ingredients, £15,516; dispensing, 3,279. 1942, ingredients, £13,855; disnsing, £12,554. 1941, ingredients, 4,820; dispensing, £10,166. The average tal cost per prescription was 11·5d. in 43; 11·04d. in 1942; and 10·84d. in 1941.

Insurance Committees' Conference.—To e annual conference of the National sociation of Insurance Committees at ackpool, on October 22, Mr. Ernest own (Minister of Health) wrote that ere was a tendency to depreciate National ealth insurance—to magnify its failings d criticise its limitations. Alderman D. J. ailey, M.P.S., chairman of Blackpool surance Committee, and thirty-one years member, felt the Government would make grievous mistake if they took away the wers of Insurance Committees; rather ould they increase those powers.

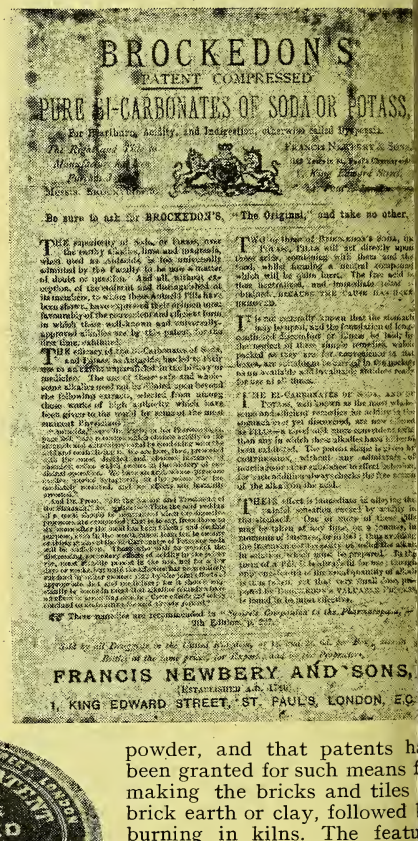
Middlesex.—Mr. F. G. Wells (vice-esident of the Pharmaceutical Society) s been elected as *Vice-chairman* of the unty Pharmaceutical Committee in succession to Mr. James Dobson. Mr. J. E. Goodall, Ealing, has been re-elected *Chairman*. Messrs. T. C. Neville Booth, A. R. Cross, L. Hayward, R. H. Rowson, and G. F. Weiss are the new members of the executive and finance subcommittee, and Messrs. G. Duncan and R. H. Rowson have become members of the district war committee. During the last four months seven firms have been added to the lists of persons supplying drugs and appliances and twenty have been deleted from the lists. The average costs of ingredients per 1,000 prescriptions in March, April and May were £25 4s. 2d., £27 12s. 7d., and £29 0s. 3d., increases up to 20 per cent. over 1940. The sum received by chemists in March was £18,531, a record figure for the county and £4,000 more than in the corresponding month last year, when 117,606 fewer prescriptions were dispensed. A drug-store in the county was recently purchased by a pharmacist of over military age and converted into a pharmacy. As the Location of Retail Businesses Order does not differentiate between medicines and dispensing, a licence was granted by the local price-regulation committee. The Pharmaceutical Committee has decided to call the attention of the Central Pharmaceutical War Committee to this case, as any increase in this practice would adversely affect the distribution of pharmaceutical man-power throughout the country.

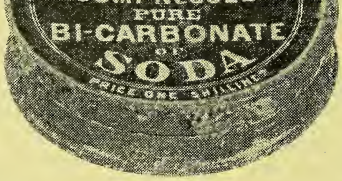
ONE HUNDRED YEARS OF TABLETS

WILLIAM BROCKEDON, author, painter and inventor, registered at the Patent Office, London, in 1843, a device for "improvements in the manufacture of pills and medicated lozenges and in preparing or treating blacklead." From this invention may be said to have evolved the vast tablet-making industry of today, with its ramifications in pharmacy, photography, the food and fuel industries, and elsewhere.

Essence of the Patent

The essence of the patent is best described in the words set down in the specification (A.D. 1843, No. 9977): "My invention relates first to a mode of manufacturing pills and medicated lozenges by causing the proper materials, when in a state of granulation, dust or powder, to be made into form and solidified by pressure in dies. . . . It is well known that in making pills and also medicated lozenges as heretofore practised the proper materials are mixed with a suitable liquid into a state of stiff paste, which is divided and shaped and allowed to dry, and it is well known that in some cases the gum and other materials used as adhesive matter for keeping the pills and lozenges in form, when the same are mixed by means of fluids, interfere with and prejudice the desired action of the matters employed in making up or preparing pills and lozenges, and these gums and adhesive matters are rendered necessary by the use of fluids for getting the matters into a condition to be shaped. Now, by the first part of my invention, only such matters will require to be used in making pills and medicated lozenges as offer the desired medical requirements, as the getting the matters into form will be effected by pressure in dies when the matters are in the state of powder or dust." Brockedon made no claim to the dies by which the operation was performed, and did not confine himself to the particulars of the dies described in the specification, "so long as the peculiar character of either part of my Invention be retained." The inventor was aware th clay or brick earth was commonly form into bricks, tiles and other articles pressure in dies when in a state of dust


BROCKEDON'S
PATENT COMPRESSED
PURE BI-CARBONATES OF SODA OR POTASS,
For Heartburn, Acidity, and Indigestion, otherwise called Dyspepsia.
FRANCIS NEWBERY & SONS,
1, KING EDWARD STREET, ST. PAUL'S, LONDON, E.C.



Above: Packing leaflet from an early container of Brockedon's compressed pure bicarbonate of soda.

Below: The package itself.

powder, and that patents h been granted for such means f making the bricks and tiles brick earth or clay, followed burning in kilns. The featu for which he claimed originali was the manufacture of "pi and lozenges" by causing t materials in the dried state be made into form and solidifi by pressure. A similar clai was made in respect of the mo of preparing and treating blac lead, and Brockedon's inventi had a considerable influence on the man facture of, for example, blacklead penci in Cumberland, but with that there is n need to be concerned at the present junctur The shape of the die and punch registere in the patent resulted in a bi-convex dis

her shapes in great variety have since en popularised according to the fancy the maker.

plications in Pharmacy

In pharmaceutical practice Brockedon's tent was first applied to "condensing e carbonates of soda potass into the form pills and lozenges." In a leaflet which companied the first packages of his com-essed pure bicarbonate of soda (an istration of which appears on p. 496), e author, after eulogising the superiority soda or potass over the "earthy alkalies, ne and magnesia, when used as antacids," es on to state that "two or three of ockedon's soda or potass pills will act ectly upon the acids of the stomach d alimentary canal, combining with em and the food whilst forming a neutral mpound which will be quite inert." hough he was no stranger to the com-rcial world—he was mentioned as one the pioneers in the development of ber (see *C. & D.*, 1939, I, 673) and he s for a time in partnership with Mr. arles Mackintosh in a rubber manufac-ing business at Manchester—Brockedon not, at least for long, directly engage in distribution of his compressed products. an early date the right and title to nufacture was purchased by Francis wbery & Sons, then housed at 1 King ward Street, St. Paul's, London, and it s later acquired by Burroughs Wellcome Co., London, in whose current price list original Brockedon compressed pure arbonates of soda and potass are still alogued. The mass production of tablets s not an immediate outcome. A move his direction was made by Jacob Dunton, Philadelphia, U.S.A., who produced lets in series, but the first concern to roduce mass methods is generally under-od to have been another American ker: John Wyeth & Bro., also of iladelphia. The registration of the trade rk Tabloid by Burroughs Wellcome Co. was effected in 1884. It was applied medical substances used in medicine d pharmacy, and afterwards to other ds. In a test case the Court of Appeal d that it was a "fancy" word as plied to the goods for which it was istered, and that it was legally restricted the goods of Burroughs Wellcome & Co.

Engineering Operation

Considering the dimensions of the in-stry today, the subject of tablet making less well documented than might be expected, or than certain less-used processes actually are. For this fact there may be several explanations. In the first place the process is not one which lends itself to small-scale use in the dispensary, although it is true that many practising pharmacists have successfully carried out tablet-making operations for their own purposes without the intention of opening out on a wholesale scale. Consequently, there is less passing-on of practical hints and stratagems to apprentices, locums and assistants, such as gradually disseminates knowledge of other pharmaceutical operations. Most of the problems, and hence most of the answers, have arisen with mass-produced tablets—in fact, they may be said to be, on the whole, engineering rather than pharmaceutical difficulties. The practical assistance given to tablet manufacturers by such engineering firms as the F. H. Stokes Machine Co. and the A. H. Colton Co. in America, and in this country by Manesty Machines, Ltd., Liverpool; E. & E. H. Walker & Co., Leeds; and S. W. Wilkinson & Co., Leicester, would be readily acknowledged. Mr. S. W. Wilkinson, for example, has devoted a lifetime to the design and construction of tablet-compressing machines, introducing many different types without imitating a machine of another maker.

Trade Secrets

It is hardly surprising, therefore, that his machines, many of which have given a generation of service without having to be replaced, incorporate many trade secrets which are unlikely to become generally known. Every pharmacist can appreciate, however, that the practical problems of tablet-making resolve themselves into selection of materials of correct grade, particle size, etc.; correct mixing of ingredients, especially where coloured materials are involved; granulating at a correct moisture-content so as to avoid the opposite evils of a tablet that never holds together when compressed and a mass that adheres to and clogs the dies; and finally the correct lubrication of the punches and dies—a matter by no means so simple as the mere addition of talc to the substance undergoing compression, but varying considerably according to the nature of the product. There have been notable contributions on these aspects to British Pharmaceutical Conferences, and mention may be made of papers by Hardwick in 1896, White & Robinson in 1902, White & Rodwell in 1903 and 1904.

BIOLOGICAL EFFECTS OF MINERAL DUSTS

It has been known for a long time that inert dust insecticides are effective in controlling the grain weevil, *Calandra granaria*. Especially within the last twenty years the phenomenon has interested biologists, and various commercial dusts have been exploited. Little has been known, however, about the mode of action of insecticidal dusts, until recently, in two most illuminating lectures given by Briscoe before the Royal Society of Arts, and recorded in the Society's "Journal" (October 25, p. 593), facts have been brought to light which may be described as—to say the least—unexpected. After initial experiments which established that the toxicity of various dusts in common use was not due to any chemical properties, the author employed the most chemically inert substance he could think of: fine diamond dust, and found it far more effective in killing weevils than any of the dusts previously tried. Other hard, chemically-inert substances were almost equally effective.

Humidity Effects

In early experiments it was considered likely that the dust might act by penetrating into the insect's respiratory system by way of the spiracles, and a number of weevils which had lived for some time on wheat dusted with a commercial insecticide were dissected under the microscope to ascertain whether this was so. No dust could, however, be seen in the tracheæ or spiracles, although their apparent absence was not recorded as conclusive. Evidence was certainly forthcoming that the weevil consumed some of the dust with its food, but further experiments showed that this was not the chief cause of the toxic action of dusts on weevils. The main effect was found to result from an action on the outer casing of the insect so curious that its possibility could hardly have been anticipated. Insects, being small, have a relatively large surface area, and the loss of water by evaporation causes a serious problem, especially for species which live entirely on dry food. The moisture content of grain normally lies between 12 and 18 per cent. by weight, but the weevil living on the grain contains 50 per cent. by weight of water, and if this figure falls to 30 per cent. or thereabouts the insect dies. Tests carried out under conditions of low and high humidity showed clearly that this factor had a marked effect on the toxicity of inert dusts and suggested that the presence of the dust somehow increa the loss of water from the insect. This the was supported by tests carried out evaluate the loss of water. These sho that the rate of loss of water of a batcl starved insects was markedly increased dusting them with an insecticidal pow The rate of loss, whether in dusted undusted insects, was largely depend on the dryness of the atmosphere, under given conditions of humidity it always two to three times as great when insects were coated with an effective d A noteworthy point was that the effec dusts were not themselves absorbers water, many of them, such as diamond carborundum, being quite incapable absorbing solutions.

Particle Size

Experiments were carried out on parti size distribution, and it was found t progressive reduction in particle size fr 10 μ to 1 μ correspondingly increased effectiveness. To eliminate particle as a variable in the comparison of differ materials the use of a great excess of d containing all ranges of particle size resorted to. Hardness, despite its imp ance, was found to be not the only criter for a few comparatively soft materials, s as zinc blende and magnesite, had exceptional effectiveness. "It seems p bable, therefore," the author writes, "t the real cause of the effect of dust in kil weevils is not hardness itself but rat some other property closely, though necessarily precisely, correlated with ha ness. For example, it may be the abi of the particles to retain their sharpn even on a sub-microscopic scale." In merable materials were examined to which gave promise of providing a m suitable insecticide in all circumstan one of the conditions being that the d should not contain free silica, which wo create a silicosis hazard to men engaged the handling and milling of grain. The m promising was found to be coal-ash clinl as produced in many large power static Prolonged grinding in a highly graded b mill gave a highly effective dust, and non-effectiveness of commercially-gro early samples of clinkers was traced to t having been ground dry instead of in presence of a liquid. The nature of liquid used was immaterial. A precipita material of the same composition was a effective. Editorial, p. 495.

HARMACEUTICAL SOCIETY OF GREAT BRITAIN

HE following matters were not touched on in the initial report of the meeting of e Pharmaceutical Society's Council held November 2 and 3 (*C. & D.*, November 6, 463).

At the adjourned October meeting held November 2, the Council decided to -opt Mr. W. J. Tristram as a member of e Council in place of Mr. Hugh W. Wallis, ired. At the Tuesday session of the vember meeting the Council appointed . W. Gill Hodgson as a member of the ntral Pharmaceutical War Committee in ace of Mrs. F. A. Ogden, who had resigned; d Mr. H. C. Shaw was appointed to fill vacancy caused by the resignation of Mr. W. Wallis.

uncil Election, 1944

THE SECRETARY reported that, by direcn of the Lord President of the Council der Section 1 of the Chartered and Other dies (Temporary Provisions) Act, 1939, d an Order in Council made thereunder, by-laws of the Society would be varied provide for the following procedure to able members in H.M. Forces to vote:—

. Nominations of members for election as mbers of Council or as auditors to be received or before November 30, 1943.

. Nominees to be notified on or before cember 5, 1943.

. Acceptances of nomination to be received or before December 31, 1943.

. Voting papers to be issued on or before bruary 1, 1944, to persons whose names pear on the Register on December 31, 1943.

The Council approved a list of forty-six oks to be sent to the Pharmaceutical iety of China (see *C. & D.*, October 16, 384), together with copies of the Society's entific publications, as a gift for a new r-time headquarters at Chungking. The uncil also considered a memorandum omitted by Mr. Knox Mawer on the nace of rats, and the secretary was inucted to inquire from the Ministries of d, Agriculture and Health the steps ommended by those departments for infestation of rats, particularly regarding use of strychnine and red squill.

Wednesday's Proceedings

reases in Pharmacy Fees

The Council read a second time the folwing proposed amendment to the by-s:—

That as from January 1, 1945, the by-laws amended in the manner following: In Section By-law 4, line 3, delete "£1 11s. 6d." and insert "Two Pounds"; in Section 1B, By-law 3, lines 2 and 3, delete "One Guinea" and insert "Two Guineas"; in Section 1B, By-law 4, line 4, delete "One Guinea" and insert "Two Guineas"; in Section VIII, By-law 3, line 8, delete "One-and-a-half Guineas" and insert "Two Pounds"; line 10, delete "15s. 9d." and insert "One Pound."

The Council approved a list of books to be sent for the library of the College of Pharmacy now being founded in New Zealand.

Establishment Committee

The following books have been added to the Library of the Society:—

Britton, H. T. S., "Hydrogen Ions" (2 vols.).
Suckling, E. V., "The Examination of Water and Water Supplies."
Wallis, T. E., "Practical Pharmacognosy."

Specimens of *Atropa acuminata* (= *A. lutescens*) grown at Ucklemynd, New Barnet, and presented by Mr. C. E. Corfield, Barnet, have been added to the herbarium and museum; and of *Melaleuca alternifolia* and *M. linariifolia*, from Mr. A. R. Penfold (curator, Technological Museum, Sydney, N.S.W.), presented by Mr. H. Berry, London, have been added to the herbarium.

Awards

It was decided to offer the award of the Hanbury Memorial medal to Sir Henry Hallett Dale; and of the Harrison Memorial Lectureship and medal to Mr. Arthur James Ewins.

Donations

Contributions to the Society's War-aid Fund during October totalled £125; contributions and donations to the Benevolent Fund during the month amounted to £120.

NEW BOOKS

Worked Examples in Physics.—L. J. Freeman. 7½ in. by 5 in. Pp. 186. 6s. Hutchinson & Co. (Publishers), Ltd., 34 Paternoster Row, London, E.C.4. This collection of nearly 200 worked examples, with detailed solutions, is intended to supplement a course of lectures or reading in mechanics, general properties of matter, heat, light, sound, magnetism and electricity up to intermediate standard. The author is lecturer in physics at Chelsea Polytechnic, and his book is of particular value to students taking courses in physics for such examinations as intermediate science, first medical, pre-medical of the Conjoint Board and the pharmaceutical intermediate.

MEDICAL ASPECTS OF THE BEVERIDGE PLA

BEFORE Leeds Branch of the Pharmaceutical Society, on October 27, Dr. J. Vaughan Jones (a member of the Council of the British Medical Association and secretary and local emergency officer of the Leeds Division, B.M.A.) addressed chemists on "Medical Aspects of the Beveridge Scheme." Mr. C. S. Challinor, Castleford (acting-chairman of the branch) presided.

Essentials for Positive Health

DR. JONES said the medical view—and he felt chemists would probably agree—was that all three assumptions of the scheme must necessarily hang together if the country was to achieve positive health. Leeds Division of the B.M.A. considered that any improvement or enlargement of the health services must rest on the principle that they must be complete and apply to all sections of the community. They must preserve free choice of doctor and of patient. As great emphasis must be laid on prevention as on cure. The people engaged in the services—doctors, chemists and others—must have an executive voice in administration, and the services must not be subject to interference by party politics. The services, it was suggested finally, must be associated with social amelioration.

Planning of health services was not new. So far back as 1920 Lord Dawson had produced a plan. The next plan was that of the B.M.A. in 1934, revised in 1938, and in this there were four cardinal points: 1, medical services should be directed to the achievement of positive health and prevention of disease no less than the cure of sickness; 2, there should be provided for every individual the services of a general practitioner; 3, consultative and laboratory services, etc., should be available to individual patients, normally through the agency of the family doctor; and 4, there should be co-ordination of all the services through a planned national policy. It would seem, therefore, that in 1934 the doctors were much further ahead than most people realised at the time. "We have had several programmes since then," said Dr. Jones, "and all these directions seem to suggest that there is something wrong with the medical service and a need for planning."

First, there was too much separation of prevention and cure. Second, there were wide differences in services and charges. There was no co-ordination of central policy. One had only to consider the number of Government departments t were "playing about" with the matte health services and rehabilitation to rea the great need for a better co-ordinat Nearly every Government department its own internal health service. Aln every Government department in "mushroom" growth of war-time seeme want a scheme. "I feel that the Ministry which can really co-ordinat the Ministry of Health."

There had been no real conception by community generally, said the spea how to achieve positive health. It always been too much thought that he was achieved by the bottle of medi from the doctor or from the chem "Unpopular as I may become here i meeting of chemists, I feel the idea of bottle of medicine is slowly passing. T will, I have no doubt, always be people will want a bottle of medicine, but I n say I hope their numbers will bec increasingly less." (Laughter.) There far too much loose prescribing. It wa wrong that certain amenities of treatm are available only to people with mo to spend. All these services should available to everybody. The majority the local Insurance Committees today mainly constituted of representatives of approved societies. The Leeds med division contended that the consu should have an executive voice in admi tration of the health services, and so sh the allied services—including chem dentists, nurses, etc.

Questions Answered

In answer to questions, DR. VAUG JONES gave it as his personal opinion there should be hope of compensatio the case of a pharmacy being closed suffering loss of dispensing due to a nea health centre; that the complete separa of dispensing and prescribing was to desired; and that the B.M.A. would with favour an approach from the Phar ceutical Society for joint discussi Summing up, he emphasised that the m object was to produce the best he service obtainable at whatever sacrifi might involve.—Thanks were accorded speaker on the motion of MR. PAUL DOBS seconded by MISS FIRTH, Ph.C., Bradf Among the questioners were Miss F. Cou Miss Firth and Messrs. Ryder, Ph Wakefield, E. Mitchell, Cross Gates, R. Donaldson, M. Jackson and J. Carr.

TRADE REPORT

t quotations for pharmaceutical chemicals, crude drugs and essential oils represent prices for wholesale quantities of standard quality. C.i.f. quotations do not include rine war risk insurance and other abnormal charges payable in the present emergency

5 Essex Street, W.C.2, November 10

ILE business in the London drug and mical markets has been steady through- the week, the volume of trade has not n large. Most of the orders have been moderate quantities, and have come ost exclusively from the home consum- trades. Nothing has occurred to disturb price position, which has remained arkably stable during recent weeks. ne PHARMACEUTICAL CHEMICALS have n in fair demand. Good business eported in AMPHETAMINE, CREAM OF TAR, SALICYLATES and SULPHANI- IDE, prices of which show no quotable nge on the week.

de Drugs

hese commodities have been selling vly and in smallish quantities, with few erial alterations in the generally firm es now ruling. Users of AGAR for the paration of bacteriological media can obtain supplies at the prices men- ed. Cape ALOES is wanted, but it ns there are no spot supplies. BALSAM U is steady at the higher figure noted ntly. BENZOIN is selling slowly at prices ch are inclined to be rather dearer. No t supplies of BUCHU LEAVES are available satisfy current demands. Occasional iness is being done in CAMPHOR for roved purposes. CARDAMOMS remain lected, with previously-quoted prices ruling. Sales of CHILLIES and other es have been on a very small scale at hanged prices. Fresh supplies of COLO- TH PULP are now available. GUM ELEMI hort, but it may be possible to locate e odd lots on spot. ERGOT remains in d request. GUM ACACIA is unchanged on week. Both varieties of IPECACUANHA wanted, but no spot supplies are avail- . A fair business is reported in Brazilian AP, and remaining supplies would be er dearer. Business in KAMALA amounts very little. The MENTHOL position still its clarification; prices are nominal.

ential Oils

s a result of diminishing stocks and lack eplenishments, the position of imported e" ESSENTIAL OILS has now become of considerable difficulty. In some ances practically no supplies remain, while in others stocks are exceedingly difficult to find. A new list of "controlled" essential oils received from the Advisory Committee to the essential oils importation scheme is now published. The prices in this list show amendments in some instances to the figures previously quoted.

In connexion with the essential oils scheme (see *C. & D.*, May 29, p. 557) a circular was issued on October 26 by Allocations Control suggesting that it was not clearly understood by datum-period distributors that they are responsible for taking up, immediately they are advised by the approved representatives that they are ready, the documents for any oils allocated to them by the Control. This applies both to goods sold on c.i.f. terms to the datum-period distributors and to Lend-Lease and other oils imported by the Ministry of Food. In some instances the documents may be in the form of delivery orders. If the user or supplier should eventually refuse a tender of oil, it is for the datum-period distributor to advise Allocations Control and obtain instructions for the disposal of such oil. Slips are being printed, one of which should be attached to all c.i.f. contracts used in connexion with the scheme. The wording reads:—

"The above price is based upon the 'through' freight ruling at the date of the contract between the seller and his shipper, viz., . . . per ton. Any difference in rate of freight payable at the time of shipment is to be for buyer's account (pro or con)."

Such slips are available on application to the secretaries (Messrs. Whinney, Smith and Whinney). It has been laid down by the Advisory Committee that all oils distributed under the scheme must be tendered to users as imported. Any user who requires blended, rectified, or treated qualities must make appropriate arrangements with his supplier. Where purchases have been made by an approved representative on an f.o.b. basis—and import licences granted on these terms—the price is to be converted to a c. and f. basis by him on his invoice to the datum-period distributor, and the calculations made to the nearest farthing. The attention of approved representatives is drawn to the fact that all shipments of oil under the scheme must be covered against unlimited transhipment risk (war).

Pharmaceutical Chemicals

ACETANILIDE.—Crystals are priced at 2s. 5d. per lb., and powder at 2s. 6d.

ASPIRIN.—In good demand. Makers' prices range from 3s. 8½d. per lb. to 4s. 4d. per lb., according to quantity and packing.

BORAX.—Makers' prices are as follows: B.P., granulated, £39 10s. per ton; crystal, £40 10s.; powder, £41, packed in 1-cwt. bags, carriage paid in Great Britain, in one-ton lots and upwards. Commercial quality, £8 per ton less.

CITRATES.—Makers' prices per lb. for POTASSIUM, in lots of 28 lb.–1 cwt., are as follows (containers in brackets): 3s. 2½d. (1-lb.); 3s. 1d. (4-lb.); 3s. (7-lb.); 2s. 11½d. (14-lb.); 2s. 11d. (28-lb.). IRON AND AMMONIUM (SCALES), B.P., is at 3d. per lb. above, and SODIUM is at 1d. per lb. below these prices.

CREAM OF TARTAR.—British makers' prices are steady at 262s. per cwt., less 2½ per cent. discount.

DIAMORPHINE.—Current rates per oz. for small quantities are as follows: ALKALOID, ½ oz., 54s.; 1 oz., 51s. 6d.; 2 oz., 50s.; 3 oz., 49s. 3d.; 4 oz., 49s. HYDROCHLORIDE.—½ oz., 49s.; 1 oz., 46s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 44s.

ETHERS (METHYLATED).—Makers' prices per lb., in Winchester quarts, are as follows: 0·750, 1s. 5¼d.; 0·735, 1s. 5¾d.; 0·730, 1s. 5¾d.; 0·725, 1s. 7¾d.; 0·725 (triply rectified), 2s. 0¼d.; 0·720, 1s. 8¾d.; 0·717, 2s. 2¾d.; 0·720, B.P. (not for anæsthesia), 1s. 10d.

ETHYLMORPHINE.—Prices per oz. for small quantities are as follows: ALKALOID, 51s.; 1 oz., 48s. 6d.; 2 oz., 47s.; 3 oz., 46s. 3d.; 4 oz., 46s. HYDROCHLORIDE, ½ oz., 43s.; 1 oz., 40s. 6d.; 2 oz., 39s.; 3 oz., 38s. 3d.; 4 oz., 38s.

GLYCERIN.—Prices per cwt. for small supplies are as follows: 56-lb. tin, 99s.; 14-lb. tin, 105s.; subject to 2½ per cent. discount, twenty-eight days.

GUAIACOLS.—Crystals and carbonate would be worth from 14s. to 15s. per lb.

PHENOLPHTHALEIN. — Makers' prices are steady at the following levels: Less than 7 lb., 4s. 6d. per lb.; 7 lb., 4s. 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d.; 1 cwt., 4s. 2d.

PILOCARPINE.—Quotations per oz. are as follows: BASE, 1 oz., 27s.; 4 oz., 26s. 6d.; 25 oz., 26s. HYDROCHLORIDE, 1 oz., 21s. 3d.; 4 oz., 20s. 9d.; 25 oz., 20s. 3d.; NITRATE, 1 oz., 18s. 6d.; 4 oz., 18s.; 25 oz., 17s. 6d.

POTASSIUM PERMANGANATE.—Makers quote B.P. at 1s. 10d. per lb.

SODIUM BENZOATE.—Price steady at 2s. 9d. to 3s. per lb., according to quantity.

SULPHANILAMIDE.—Quoted at 10s. 6d. to 12s. 6d. per lb., according to quantity.

VANILLIN.—As noted last week (p. 476) vanillin has been reduced by 1s. 6d. per lb. throughout the scale, other terms and conditions as previously. The present schedule is as follows: 5 cwt., 21s. per lb.; 1 cwt., 21s. 3d.; 56 lb., 21s. 6d.; less than 56 lb., 21s. 9d.

Crude Drugs

AGAR.—Odd lots of Kobe No. 1 are selli approved users for bacteriological purp at 65s. to 75s. per lb.

ALOES.—Curaçao, spot, 470s. to 480s. cwt.; shipment, 360s. to 370s., c.i.f. remains in good demand, but no spot sup appear to be available.

BALSAMS.—Softish *Tolu* is now stead 15s. 6d. per lb., but supplies are not plent *Canada*, 10s. 3d. per lb., *Peru*, 8s. 3d. pe duty paid; *Copaiba*, unobtainable.

BENZOIN.—Sumatra block is moving a slowly on spot at £25 per cwt. Free "almo £35. Purchases for non-pharmaceutical pur require the consent of the Director of Me Supplies.

BUCHU.—Neither rounds nor ovals are a able to meet the demand.

CAMPHOR.—Occasional sales are being to approved buyers. Prices are as foll Chinese crude (93 per cent.), 10s. per B.P., 11s. 6d.

CARDAMOMS.—Aleppy greens remain st on spot at 5s. 6d. per lb.; Aleppy seed ma had at 6s. 6d., and split seed at 5s. 6d.

CASCARA SAGRADA.—No spot supplie bark are yet available to meet the deman

CLOVES.—Zanzibar, spot, quoted uncha at 1s. 5½d. per lb.; second-grade, to ar 10d. per lb., c.i.f., sellers.

COCHINEAL.—Blacks may be had on spo medicinal use at 4s. 9d. per lb.

COLOCYNTH.—Fresh supplies of pulp now available.

DIGITALIS LEAVES.—The spot price Portuguese leaves is steady at 135s. per English-grown leaves may be had at 2s per lb.

DRAGON'S BLOOD.—Dull Zanzibar drop be obtained on spot at £21 per cwt.; no varieties are obtainable.

ELEMI.—Any available spot supplie No. 1 gum would fetch 360s. per cwt., supplies are not easy to find.

ERGOT.—Sound, spot, 5s. 6d. per lb.; ment, 4s. 6d. per lb., c.i.f.

GUM ACACIA.—Kordofan cleaned sorts, st on spot at 95s. per cwt.; bleached, 150s., Talha, cleaned, 55s. per cwt., landed terms

IPECACUANHA.—Both Matto Grosso Minas are wanted, but no spot supplie available at present. As noted last week, of EXT. IPECAC. LIQ. have been advance 2s. per lb. New rates are as follows: chesters, B.P., 1932, under three, 32s. 6d. lb.; three and under six, 32s.; six and u twelve, 31s. 6d.; twelve and over, 31s.; 1914, under three, 30s. 6d.; three and u six, 30s.; six and under twelve, 29s. 6d.; tw and over, 29s. per lb.; all prices quoted a a net basis.

ALAP.—A fair business has been done in 16 cent. Brazilian root; spot price, if available, ld be 110s. per cwt.

AMALA.—Material testing about 5 per cent. uoted on spot at 1s. 9d. per lb. Demand is ligible.

IQUORICE ROOT.—Russian root for phareutical purposes may be obtained by apved users at 75s. per cwt. on spot; cut sian root, for non-pharmaceutical use, 6d. per cwt.

ENTHOL.—No change has occurred in the tion as previously reported; price, 95s. per nominal.

UX VOMICA.—Dealers can offer washed and led Cochin on spot at 42s. 6d. to 45s. per ., according to seller; shipment from India, , c.i.f. Cocanada, spot, 37s. 6d. per cwt.; ment, 32s. 6d., c.i.f.

EPPERS.—Maximum prices of whole, not ed over or cleaned, on sale to processors, 1s. 4d. per lb. for white, and 1s. per lb. lack, both duty paid.

IMENTO.—There are spot sellers at 1s. 9d. lb.; shipment is not quoted.

SYLLIUM SEED.—Indian seed, in small com- on spot, may be had from dealers at 1s. 3d. lb.

UILLAIA BARK.—Crushed or cut bark, spot, per cwt.; natural, spot, 75s.; afloat, 65s.,

HUBARB.—Demand continues fair and s are unaltered. Spot, rough-round, 8s. per flat, high-dried, rough-coat, 8s. to 8s. 3d.; tly wormy, 8s. Shensi, pickings, 11s.; ium to bold, 13s. to 14s., but the better es are in little demand.

APONIN.—Steady on spot at 7s. 6d. per lb., ore.

EEDS.—Market quiet; all prices unchanged. IANDER.—Indian, 90s. per cwt. CUMIN.— ese, spot, 120s.; Indian, 110s. DILL.— ., ex wharf Glasgow; 167s. 6d., ex wharf don. FENNEL.—Nominal at 87s. 6d. FENUEK.—May be had at 80s. MUSTARD.— trolled prices as recently recorded are hanged.

ENNA.—Alexandrian medium pods are at d. to 4s. per lb.; Tinnevelly, manufacturing e, 6d. to 7½d.; broken Alexandrian leaves, d. to 1s. 4d.; siftings, 1s. 2d.; Tinnevelly 1, 9d. to 10d.; No. 2, 7d. to 7½d.; No. 3, to 6d.

RAGACANTH.—In good demand; prices of principal medium grades are unchanged: 1, white, £130 per cwt.; No. 2, white, ; No. 3, white, £102; No. 4, white, £83; leaf, £73; amber leaf, £65; dark amber, brown leaf, £35; red-and-brown leaf, red leaf, from £30; hoggy, light, from woody and dark, £12.

AXES.—BEES'.—Obtainable only through Association of Merchant Distributors of wax. CARNAUBA.—Quiet. Fatty grey, , steady at 420s.; chalky grey, 410s.; eira, 530s. per cwt.

Essential and Expressed Oils

ANISE (STAR).—In considerable demand, but supplies are short; price nominal at 80s. per lb.

BAY.—The price of any available spot supplies would be in the region of 12s. 6d. per lb.

CAJUPUT.—In small compass on spot at approximately 15s. per lb.

CINNAMON.—For leaf oil on spot, about 15s. 6d. to 16s. per lb. would be wanted.

CITRONELLA.—Java, spot, approximately 25s. per lb.; Ceylon, about 21s. 6d.

CLOVE.—English distillers' prices for genuine B.P. oil remain at 11s. 6d. to 12s. per lb., according to quantity.

CROTON.—Quoted at 9s. 6d. per lb.

EUCALYPTUS.—Seventy to 75 per cent. oil in drums would be worth approximately 5s. 9d. per lb. on spot; 80 to 85 per cent., about 6s.

GERANIUM.—Genuine North African oil, spot, 85s. to 90s. per lb., according to quantity.

GINGER.—English-distilled oil is available at approximately 90s. per lb.

GINGERGRASS.—Spot price is steady at about 22s. 6d. per lb., but supplies are small.

LEMONGRASS.—Small spot supplies may be had at about 13s. 6d. per lb.

NUTMEG.—Oil from West Indian nutmegs may be purchased at about 42s. per lb.

PALMAROSA.—Spot, 93 per cent., if available, about 35s. per lb.

PATCHOULI.—Spot price of any available supplies of good-quality oil would be approximately 72s. 6d. per lb.

PEPPERMINT.—Supplies of uncontrolled oils are short and prices up to 120s. per lb. are mentioned.

PETITGRAIN.—Spot supplies are small; price, about 25s. per lb.

ROSEMARY.—Spot, if available, about 16s.

Controlled Essential Oils.—The following schedule of prices for controlled essential oils has been received from the Advisory Committee under the essential oils importation scheme. Prices are per lb. for oils delivered to consumer in original packages.

Lemon, cold-pressed	18s. 10½d.
Lemon, distilled ..	14s. 4d.
Peppermint	36s. 4d.
Grapefruit	18s. 2d. (incl. duty)
Sassafras	11s. 3¼d. (plus 1s. duty)
Caraway	20s. 4½d. (plus 1s. 10d. duty)
Wormseed	15s. (plus purchase tax where payable)
Cedarwood	3s. 1d. (plus 3d. duty)
Nutmeg	22s. 3d. (plus 2s. duty)
Fennel	11s. 3½d. (plus 1s. duty)
Coriander, Russian ..	127s. (plus 11s. 6d. duty)
Geranium, Bourbon	25s.
,, (Ministry oil)	24s. 6d.
Orange oil, Jamaica	23s. 6d.
Vetivert	37s. 7d. (plus 3s. 5d. duty

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real n e and address to the Editor

Proposed Increase in Pharmacy Fees

Sir,—I would like to endorse every word of your leader in THE CHEMIST AND DRUGGIST of October 23, p. 415, on "Increased Pharmacy Fees." You have stated it very mildly, but what can we do seeing that chemists never have stood and never will stand together?

Yours faithfully,

Bournemouth. R. HARDWICK.

Apprentices' Prospects

SIR,—Apparently, like Mr. John Cheshire, I have had my interest held by the contributions appearing in the *C. & D.* about apprentices (p. 478). When one seeks an apprentice it is surely fair to be honest about it. All through forty years of pharmacy I have noticed the tendency of pharmacists deliberately to discourage their offspring from manipulating a pestle and mortar in order to grind away at ungodly working conditions without adequate remuneration or social amenities. It is to be hoped that where this "really fine lad" extends his illustrious habits the *C. & D.* arrives weekly, and that he has easy access to it.

Yours faithfully,

ALGID.

Employee Organisation

SIR,—Your leader touching upon Joint Industrial Councils (October 30, p. 441) will be read with considerable interest. The pity of the circumstance is that whilst a 50/50 board of employers and employees, with an independent chairman, reads all right, it may not be so in practice. The employees' half of the 50/50 is likely to be a collection of persons representing separate elements of the employees. Each may have his instructions from his "constituency" and be at variance with his fellows. That's the fault of nobody, but results from the fact that employee pharmacists lack total unity. The fact is that if proprietor pharmacists can carry a union, the non-proprietors have also enough strength to do so. I sincerely hope that the London group of N.P.E.U. will not divide amongst itself, but that they and all other employee pharmacists will keep before them that fact of their total strength and common qualification, and determine to overcome the problems and hardships inseparable from organisation. The way will be hard, ma e costly, but much depends upon empl e pharmacists at this point of pharmaceu l evolution.

Yours faithfully,

Shipley. J. WILKINSO

A Fitzroy Barometer

SIR,—Your interesting article, "B meter Centenary and Tercentenary" (*D.*, October 23, p. 410), prompts m send an illustration of an old Adm Fitzroy barometer which I purch recently in Bath. The dealer when se it stated that the mercury alone was w the money paid for it, as indeed it This barometer is similar to the illustrated in your article, except it has not such an elaborate case, while the thermometer is missing from the right side. There is no evidence of a "storm glass" having been fixed on the left side, but in its place there is a scale giving the height of the atmosphere, also the highest point in the British Isles and the heights of the Alps, Andes and Himalayas. There are two pointers sliding in grooves in the side of the case, on the left side marked "Set yesterday," and on the right "Set today." Beneath the graduations are the usual couplets found on old "weather glasses":—

Long foretold, long last,
Short notice, soon past.
First rise—after low,
Foretells—stronger blow.

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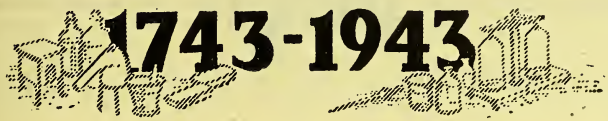

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1 doz. 1/5 Bismag Powder	...	12	0
½ „ 2/10 „ „	...	12	0
2 „ 1/5 „ Tablets	...	1 4	0
1 „ 2/10 „ „	...	1 4	0
1 „ 1/9 Pineate Honey Cough-Syrup	... ...	13	9
1 „ 2/3 Limestone Phosphate		18	0
1 „ 1/5 Freezone Corn Remover		11	3
		£5 15	0
Purchase Tax on all goods and on bonus	... ...	1 1	1
		£6 16	1

3 doz. 1/5 Bismag Powder	...	1 16	0
1 „ 2/10 „ „	...	1 4	0
		£3 0	0
Purchase Tax on above and on bonus	... ...	11	8
		£3 11	8

3 doz. 1/5 Bismag Tablets	...	1 16	0
1 „ 2/10 „ „	...	1 4	0
		£3 0	0
Purchase Tax on above and on bonus	... ...	11	8
		£3 11	8

1 doz. 1/5 Bismag Powder	...	12	0
2 „ 1/5 „ Tablets	...	1 4	0
1 „ 2/10 „ „	...	1 4	0
		£3 0	0
Purchase Tax on above and on bonus	... ...	11	8
		£3 11	8

1 doz. 1/5 Bismag Powder	...	12	0
½ „ 2/10 „ „	...	12	0
2 „ 1/5 „ Tablets	...	1 4	0
½ „ 2/10 „ „	...	12	0
		£3 0	0
Purchase Tax on above and on bonus	... ...	11	8
		£3 11	8

F

1 doz. 2/10 Bismag Powder	...	1 4	0
1½ „ 2/10 „ Tablets	...	1 16	0
		£3 0	0
Purchase Tax on above and on bonus	... ...	11	8
		£3 11	8

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1½ doz. 1/5 Bismag Powder	...	18	0
3 „ 1/5 „ Tablets	...	1 16	0
		£2 14	0
Purchase Tax on above and on bonus	... ...	10	6
		£3 4	6

J

2 doz. 1/5 Freezone Corn Remover	... ...	1 2	6
1 „ 2/3 Limestone Phosphate		18	0
1 „ 1/9 Pineate Honey Cough-Syrup	... ...	13	9
		£2 14	3
Purchase Tax	... ...	9	0
		£3 3	3

K

4 doz. 1/9 Pineate Honey Cough-Syrup	... ...	2 15	0
Purchase Tax	... ...	9	2
		£3 4	2

L

6 doz. 1/5 Freezone Corn Remover	... ...	3 7	6
Purchase Tax	... ...	11	3
		£3 18	9

N

2 doz. 1/5 Freezone Corn Remover	... ...	1 2	6
2 „ 1/9 Pineate Honey Cough-Syrup	... ...	1 7	6
		£2 10	0
Purchase Tax	... ...	8	4
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3 doz. 2/3 Limestone Phosphate		2 14	0
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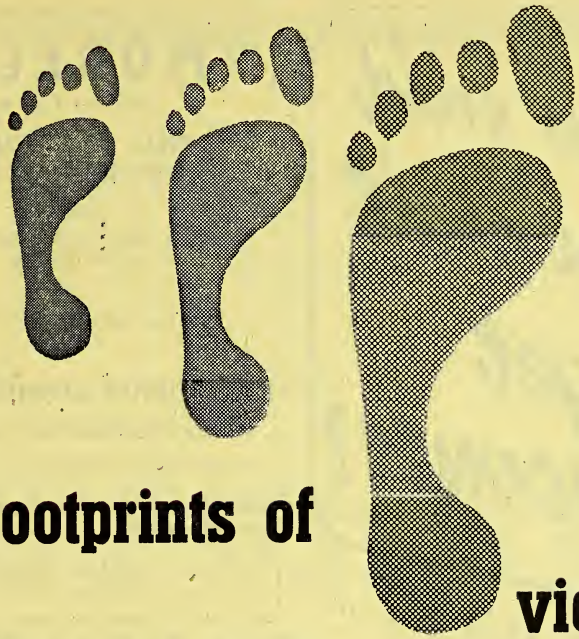

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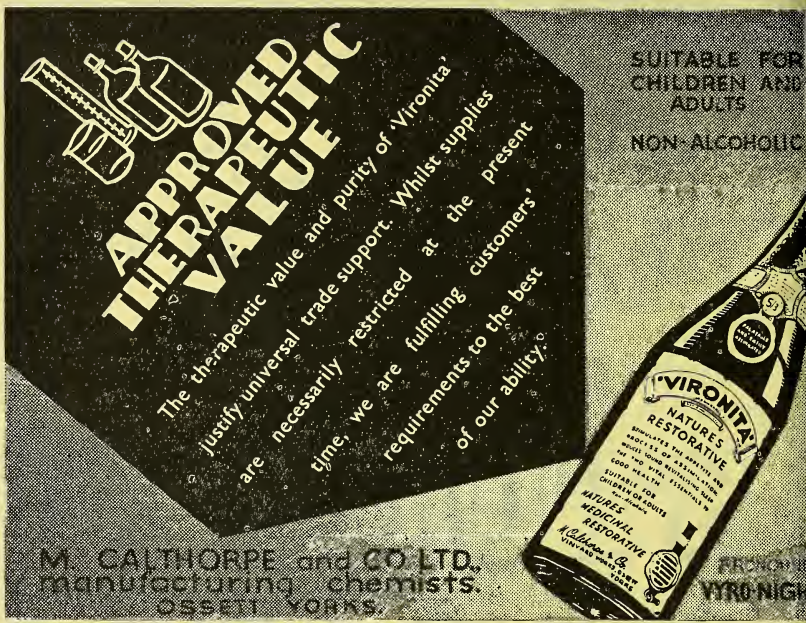
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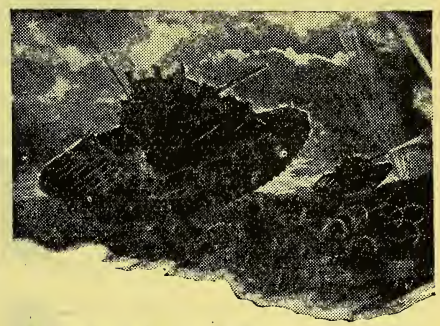

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